pPTK081_0_Empty LMBP 12734

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK081_0_Empty
Plasmid type:	Recombinant plasmid
Cloned DNA:	Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT)
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Escherichia coli rrnB operon T1 terminator
	Phage T7 early transcription terminator (T7Te)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli
	Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic sfGFP coding sequence, codon optimised for P. pastoris, in the synthetic pPTK_0 vector. This plasmid is a level 0 destination vector for OPENPichia. It is intended to subclone new parts for this modular cloning technology. Other name of the plasmid is pPTK081.
Authenticity:	The glpT-RBS-sfGFP-T1-T7Te cassette has been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	-
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia
	- RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL.
	- The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.
	- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.
	- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK070_P1_ConLS LMBP 12735

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK070_P1_ConLS
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S (ConLS)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConLS sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK070.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12735.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK071_P1_ConL1 LMBP 12736

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK071_P1_ConL1
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector 1 (ConL1)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConL1 sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK071.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12736.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK188_P1_ConL2 LMBP 12737

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK188_P1_ConL2
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector 2 (ConL2)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConL2 sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK188.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12737.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK189_P1_ConL3 LMBP 12738

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK189_P1_ConL3
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector 3 (ConL3)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConL3 sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK189.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12738.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK190_P1_ConL4 LMBP 12739

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK190_P1_ConL4
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector 4 (ConL4)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConL4 sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK190.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12739.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in publications making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the initial publication describing the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK191_P1_ConL5 LMBP 12740

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK191_P1_ConL5
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector 5 (ConL5)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConL5 sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK191.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12740.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK072_P1_ConLS' LMBP 12741

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK072_P1_ConLS'
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS')
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConLS' sequence in the synthetic pPTK_0 vector. This plasmid contains a left assembly connector (OPENPichia part 1) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Connector ConLS' differs from connector ConLS only in the orientation of the BsmBI recognition site. Other name of the plasmid is pPTK072.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	-
Sequence file:	p12741.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK001_P2_pAOX1 LMBP 12742

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK001_P2_pAOX1
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia pastoris alcohol oxidase 1 promoter (AOX1)
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris AOX1 promoter sequence in the synthetic pPTK_0 vector. This plasmid contains a Pichia promoter (OPENPichia part 2) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK001.
Authenticity:	The AOX1 promoter has been sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12742.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK034_P2_pGAP LMBP 12743

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK034_P2_pGAP
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia pastoris glyceraldehyde-3-phosphate dehydrogenase promoter (GAP)
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris GAP promoter sequence in the synthetic pPTK_0 vector. This plasmid contains a Pichia promoter (OPENPichia part 2) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK034.
Authenticity:	The 3' end of the pMB1 ori, the GAP promoter and the 3' end of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12743.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK016_P3a_ScMF LMBP 12744

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK016_P3a_ScMF
Plasmid type:	Recombinant plasmid
Cloned DNA:	Saccharomyces cerevisiae a-mating factor 1 gene (MFa1, GeneID 855914); prepro secretion signal sequence (ppMF)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic S. cerevisiae ppMF signal sequence, including 4 downstream codons encoding EAEA, in the synthetic pPTK_0 vector. This plasmid contains a yeast signal sequence (OPENPichia part 3a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK016.
Authenticity:	The pMB1 ori, ppMF sequence and most of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12744.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK096_P3a_Ost1 LMBP 12745

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK096_P3a_Ost1
Plasmid type:	Recombinant plasmid
Cloned DNA:	Saccharomyces cerevisiae dolichyl-diphosphooligosaccharide-protein glycotransferase subunit OST1 cDNA (OST1, NLT1, GeneID 853455); signal sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic S. cerevisiae OST1 signal sequence in the synthetic pPTK_0 vector. This plasmid contains a yeast signal sequence (OPENPichia part 3a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK096.
Authenticity:	The plasmid has been fully sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12745.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK110_P3a_Kar2 LMBP 12746

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK110_P3a_Kar2
Plasmid type:	Recombinant plasmid
Cloned DNA:	Pichia pastoris Hsp70 family ATPase KAR2 cDNA (KAR2); signal sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris KAR2 signal sequence in the synthetic pPTK_0 vector. This plasmid contains a yeast signal sequence (OPENPichia part 3a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK110.
Authenticity:	The KAR2 signal sequence and the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12746.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK213_P3a_ScMFnoEAEA LMBP 12747

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK213_P3a_ScMFnoEAEA
Plasmid type:	Recombinant plasmid
Cloned DNA:	Saccharomyces cerevisiae a-mating factor 1 gene (MFa1, GeneID 855914); prepro secretion signal sequence (ppMF), codon optimised
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic codon optimised S. cerevisiae ppMF signal sequence, without the 4 downstream codons encoding EAEA, in the synthetic pPTK_0 vector. This plasmid contains a yeast signal sequence (OPENPichia part 3a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK213.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for a small fragment upstream of the chloramphenicol resistance gene and the pMB1 ori.
Sequence detail:	–
Sequence file:	p12747.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK037_P3b_yEGFP LMBP 12748

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK037_P3b_yEGFP
Plasmid type:	Recombinant plasmid
Cloned DNA:	Aequorea victoria green fluorescent protein DNA (GFP); yeast enhanced sequence (yEGFP)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic yEGFP coding sequence in the synthetic pPTK_0 vector. This plasmid contains a fluorescent marker (OPENPichia part 3b) for the OPENPichia modular cloning technology. This can be replaced by any gene of interest with attached BsaI restriction sites, leaving appropriate overhangs to either combine with OPENPichia part 3a-OPENPichia part 4, or directly with OPENPichia part 2-OPENPichia part 4. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK037.
Authenticity:	The pMB1 ori, the yEGFP coding sequence and the 3' end of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12748.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK146_P3b_sfGFP LMBP 12749

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK146_P3b_sfGFP
Plasmid type:	Recombinant plasmid
Cloned DNA:	Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic sfGFP coding sequence, codon optimised for P. pastoris, in the synthetic pPTK_0 vector. This plasmid contains a fluorescent marker (OPENPichia part 3b) for the OPENPichia modular cloning technology. This can be replaced by any gene of interest with attached BsaI restriction sites, leaving appropriate overhangs to either combine with OPENPichia part 3a-OPENPichia part 4, or directly with OPENPichia part 2-OPENPichia part 4. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK146.
Authenticity:	The pMB1 ori, the sfGFP coding sequence and the 3' end of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12749.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK047_P4_AOX1tt LMBP 12750

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK047_P4_AOX1tt
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris AOX1 terminator into the synthetic pPTK_0 vector. This plasmid contains a yeast terminator (OPENPichia part 4) for the OPENPichia modular cloning technology. OPENPichia part 4 connects directly to the gene of interest (OPENPichia part 3b or a custom part 3). To include a C-terminal marker (OPENPichia part 4a), choose a terminator from OPENPichia part 4b. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK047.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for most of the chloramphenicol resistance gene.
Sequence detail:	-
Sequence file:	p12750.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK052_P4_DAS1tt LMBP 12751

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK052_P4_DAS1tt
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	Pichia pastoris dihydroxyacetone synthase 1 terminator (DAS1)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris DAS1 terminator in the synthetic pPTK_0 vector. This plasmid contains a yeast terminator (OPENPichia part 4) for the OPENPichia modular cloning technology. OPENPichia part 4 connects directly to the gene of interest (OPENPichia part 3b or a custom part 3). To include a C-terminal marker (OPENPichia part 4a), choose a terminator from OPENPichia part 4b. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK052.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for a small fragment upstream of the chloramphenicol resistance gene and the pMB1 ori.
Sequence detail:	-
Sequence file:	p12751.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK007_P4a_MYC-tag LMBP 12752

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK007_P4a_MYC-tag
Plasmid type:	Recombinant plasmid
Cloned DNA:	Myc epitope; C-terminal
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic Myc epitope coding sequence in the synthetic pPTK_0 vector. This plasmid contains a C-terminal marker (OPENPichia part 4a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK007.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12752.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK008_P4a_HA-tag LMBP 12753

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK008_P4a_HA-tag
Plasmid type:	Recombinant plasmid
Cloned DNA:	Influenza HA epitope encoding the haemagglutinin tagging peptide; C-terminal
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic HA epitope coding sequence in the synthetic pPTK_0 vector. This plasmid contains a C-terminal marker (OPENPichia part 4a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK008.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12753.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK010_P4a_HIS-tag LMBP 12754

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK010_P4a_HIS-tag
Plasmid type:	Recombinant plasmid
Cloned DNA:	Histidine tag (His-tag); C-terminal
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic His-tag coding sequence in the synthetic pPTK_0 vector. This plasmid contains a C-terminal marker (OPENPichia part 4a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK010.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12754.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK038_P4a_yEGFP LMBP 12755

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK038_P4a_yEGFP
Plasmid type:	Recombinant plasmid
Cloned DNA:	Aequorea victoria green fluorescent protein DNA (GFP); yeast enhanced sequence (yEGFP)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic yEGFP coding sequence in the synthetic pPTK_0 vector. This plasmid contains a C-terminal marker (OPENPichia part 4a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK038.
Authenticity:	The pMB1 ori, the yEGFP coding sequence and the 3' end of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12755.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the initial publication describing the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK147_P4a_sfGFP LMBP 12756

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK147_P4a_sfGFP
Plasmid type:	Recombinant plasmid
Cloned DNA:	Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic sfGFP coding sequence, codon optimised for P. pastoris, in the synthetic pPTK_0 vector. This plasmid contains a C-terminal marker (OPENPichia part 4a) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK147.
Authenticity:	The pMB1 ori, the sfGFP coding sequence and the 3' end of the chloramphenicol resistance gene have been sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12756.gb
Latest seqence update:	03/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK003_P4b_AOX1tt LMBP 12757

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK003_P4b_AOX1tt
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris AOX1 terminator in the synthetic pPTK_0 vector. This plasmid contains a yeast terminator (OPENPichia part 4b) for the OPENPichia modular cloning technology. OPENPichia part 4b connects to a C-terminal marker (OPENPichia part 4a). To connect directly to the gene of interest (OPENPichia part 3b or a custom part 3), choose a terminator from OPENPichia part 4. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK003.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for a small fragment upstream of the chloramphenicol resistance gene and the pMB1 ori.
Sequence detail:	-
Sequence file:	p12757.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK053_P4b_DAS1tt LMBP 12758

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK053_P4b_DAS1tt
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	Pichia pastoris dihydroxyacetone synthase 1 terminator (DAS1)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic P. pastoris DAS1 terminator in the synthetic pPTK_0 vector. This plasmid contains a yeast terminator (OPENPichia part 4b) for the OPENPichia modular cloning technology. OPENPichia part 4b connects to a C-terminal marker (OPENPichia part 4a). To connect directly to the gene of interest (OPENPichia part 3b or a custom part 3), choose a terminator from OPENPichia part 4. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK053.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for the 5' end of the chloramphenicol resistance gene and its promoter region.
Sequence detail:	-
Sequence file:	p12758.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK073_P5_ConR1 LMBP 12759

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK073_P5_ConR1
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector 1 (ConR1)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConR1 sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK073.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12759.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK192_P5_ConR2 LMBP 12760

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK192_P5_ConR2
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector 2 (ConR2)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConR2 sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK192.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12760.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK193_P5_ConR3 LMBP 12761

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK193_P5_ConR3
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector 3 (ConR3)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConR3 sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK193.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12761.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK194_P5_ConR4 LMBP 12762

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK194_P5_ConR4
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector 4 (ConR4)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConR4 sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK194.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12762.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK195_P5_ConR5 LMBP 12763

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK195_P5_ConR5
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector 5 (ConR5)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConR5 sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK195.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12763.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK074_P5_ConRE LMBP 12764

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK074_P5_ConRE
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector E (ConRE)
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConRE sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK074.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12764.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK075_P5_ConRE' LMBP 12765

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK075_P5_ConRE'
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning right assembly connector E' (ConRE')
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic ConRE' sequence in the synthetic pPTK_0 vector. This plasmid contains a right assembly connector (OPENPichia part 5) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Connector ConRE' differs from connector ConRE only in the orientation of the BsmBI recognition site. Other name of the plasmid is pPTK075.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	-
Sequence file:	p12765.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK054_P6_Stuffer LMBP 12766

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK054_P6_Stuffer
Plasmid type:	Recombinant plasmid
Cloned DNA:	Escherichia coli lac Z gene (lacZ); fragment
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic 73bp stuffer sequence, derived from the E. coli lacZ coding sequence, in the synthetic pPTK_0 vector. This plasmid contains a stuffer fragment (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK054.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12766.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK065_P6_HIS4 LMBP 12767

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK065_P6_HIS4
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam) Pichia pastoris HIS4; auxotrophic
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the P. pastoris HIS4 coding sequence, with its native promoter and terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK065.
Authenticity:	Most of the HIS4 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12767.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK200_P6_HygR LMBP 12768

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK200_P6_HygR
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the hygromicin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK200.
Authenticity:	The region downstream of the pMB1 ori, including the entire hygromycin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12768.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK201_P6_NourR LMBP 12769

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK201_P6_NourR
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the nourseothricin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK201.
Authenticity:	The region downstream of the pMB1 ori, including the entire nourseothricin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12769.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK202_P6_KanR LMBP 12770

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK202_P6_KanR
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the neomycin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK202.
Authenticity:	The region downstream of the pMB1 ori, including the entire neomycin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12770.gb
Latest seqence update:	27/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK203_P6_ZeoR LMBP 12771

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK203_P6_ZeoR
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo)) Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the zeocin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK203.
Authenticity:	The region downstream of the pMB1 ori, including the entire zeocin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12771.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK042_P6_BlastR LMBP 12772

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK042_P6_BlastR
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Blasticidin (bsd) Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the blasticidin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK042.
Authenticity:	The region downstream of the pMB1 ori, including the entire blasticidin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12772.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK204_P6_Lox71-HygR-Lox66 LMBP 12773

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK204_P6_Lox71-HygR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the hygromicin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The hygromycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK204.
Authenticity:	The region downstream of the pMB1 ori, including the entire hygromycin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12773.gb
Latest seqence update:	28/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK205_P6_Lox71-NourR-Lox66 LMBP 12774

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK205_P6_Lox71-NourR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the nourseothricin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The nourseothricin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK205.
Authenticity:	The region downstream of the pMB1 ori, including the entire nourseothricin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12774.gb
Latest seqence update:	28/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK206_P6_Lox71-KanR-Lox66 LMBP 12775

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK206_P6_Lox71-KanR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Chloramphenicol (cam) Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the neomycin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The neomycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK206.
Authenticity:	The region downstream of the pMB1 ori, including the entire neomycin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12775.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK207_P6_Lox71-ZeoR-Lox66 LMBP 12776

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK207_P6_Lox71-ZeoR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo)) Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the zeocin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The zeocin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK207.
Authenticity:	The region downstream of the pMB1 ori, including the entire zeocin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12776.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

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pPTK066_P6_Lox71-BlastR-Lox66 LMBP 12777

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK066_P6_Lox71-BlastR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
Selection marker:	Blasticidin (bsd) Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the blasticidin resistance gene, with both a yeast and bacterial promoter and a yeast terminator, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_0 vector. This plasmid contains a Pichia selection marker (OPENPichia part 6) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The blasticidin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK066.
Authenticity:	The region downstream of the pMB1 ori, including the entire blasticidin resistance cassette, was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12777.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK004_P7_Stuffer LMBP 12778

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK004_P7_Stuffer
Plasmid type:	Recombinant plasmid
Cloned DNA:	Escherichia coli lac Z gene (lacZ); fragment
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic 140bp stuffer sequence, derived from the E. coli lacZ coding sequence, in the synthetic pPTK_0 vector. This plasmid contains a stuffer sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK004.
Authenticity:	This plasmid has been fully sequenced.
Sequence detail:	–
Sequence file:	p12778.gb
Latest seqence update:	28/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr. R Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK011_P7_ppARS1 LMBP 12779

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK011_P7_ppARS1
Plasmid type:	Recombinant plasmid
Cloned DNA:	-
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin Pichia pastoris autonomously replicating sequence (ARS1)
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic P. pastoris ARS1 sequence in the synthetic pPTK_0 vector. This plasmid contains a yeast plasmid replication sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK011.
Authenticity:	The plasmid was sequenced at BCCM/GeneCorner, except for a small fragment upstream of the chloramphenicol resistance gene and the pMB1 ori.
Sequence detail:	-
Sequence file:	p12779.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK045_P7_HR1-Chr1 LMBP 12780

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK045_P7_HR1-Chr1
Plasmid type:	Recombinant plasmid
Cloned DNA:	Pichia pastoris chromosome 1 integration targeting sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic P. pastoris genomic integration targeting sequence, derived from the intergenic region between PP7435_Chr1-0784 and 0785, in the synthetic pPTK_0 vector. This plasmid contains a genomic integration targeting sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK045.
Authenticity:	The pMB1 ori, the P. pastoris chromosome 1 sequence, and the 3' end of the chloramphenicol resistance gene, were sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12780.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK039_P7_HR1-Chr2 LMBP 12781

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK039_P7_HR1-Chr2
Plasmid type:	Recombinant plasmid
Cloned DNA:	Pichia pastoris chromosome 2 integration targeting sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic P. pastoris genomic integration targeting sequence, derived from the intergenic region between PP7435_Chr2-0632 and 0633, in the synthetic pPTK_0 vector. This plasmid contains a genomic integration targeting sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK039.
Authenticity:	The pMB1 ori, the P. pastoris chromosome 2 sequence, and the 3' end of the chloramphenicol resistance gene, were sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12781.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK040_P7_HR1-Chr3 LMBP 12782

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK040_P7_HR1-Chr3
Plasmid type:	Recombinant plasmid
Cloned DNA:	Pichia pastoris chromosome 3 integration targeting sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic P. pastoris genomic integration targeting sequence, derived from the intergenic region between PP7435_Chr3-0537 and 0538, in the synthetic pPTK_0 vector. This plasmid contains a genomic integration targeting sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK040.
Authenticity:	The pMB1 ori, the P. pastoris chromosome 3 sequence, and the 3' half of the chloramphenicol resistance gene, were sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12782.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK046_P7_HR1-Chr4 LMBP 12783

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK046_P7_HR1-Chr4
Plasmid type:	Recombinant plasmid
Cloned DNA:	Pichia pastoris chromosome 4 integration targeting sequence
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic P. pastoris genomic integration targeting sequence, derived from the intergenic region between PP7435_Chr4-0089 and 0090, in the synthetic pPTK_0 vector. This plasmid contains a genomic integration targeting sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK046.
Authenticity:	The pMB1 ori, the P. pastoris chromosome 4 sequence, and the 3' half of the chloramphenicol resistance gene, were sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12783.gb
Latest seqence update:	04/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK068_P7_I-SceI stuffer LMBP 12784

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK068_P7_I-SceI stuffer
Plasmid type:	Recombinant plasmid
Cloned DNA:	Synthetic I-SceI endonuclease cDNA (I-SceI); fragment
Promoter:	-
RBS:	-
Terminator:	-
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning a synthetic stuffer fragment, based on the I-SceI coding sequence, in the synthetic pPTK_0 vector. This plasmid contains a stuffer sequence (OPENPichia part 7) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. Other name of the plasmid is pPTK068.
Authenticity:	The pMB1 ori, the I-SceI stuffer, and the 3' half of the chloramphenicol resistance gene, were sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12784.gb
Latest seqence update:	28/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK080_P8_AmpR LMBP 12785

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK080_P8_AmpR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1)
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Escherichia coli rrnB operon T1 terminator
	Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli
	Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the ampicillin resistance cassette in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). Other name of the plasmid is pPTK080.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12785.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia
	- RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL.
	- The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.
	- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.
	- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK196_P8_HygR LMBP 12786

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + hygromycin (100 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK196_P8_HygR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the hygromycin resistance cassette in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). Other name of the plasmid is pPTK196.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12786.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

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pPTK197_P8_NourR LMBP 12787

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + nourseothricin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK197_P8_NourR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the nourseothricin resistance cassette in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). Other name of the plasmid is pPTK197.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12787.gb
Latest seqence update:	06/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

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pPTK198_P8_KanR LMBP 12788

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + kanamycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK198_P8_KanR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the neomycin resistance cassette in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). Other name of the plasmid is pPTK198.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12788.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

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pPTK199_P8_ZeoR LMBP 12789

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + zeocin (25 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK199_P8_ZeoR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the zeocin resistance cassette in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). Other name of the plasmid is pPTK199.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12789.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK076_P8_Lox71-HygR-Lox66 LMBP 12790

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + hygromycin (100 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK076_P8_Lox71-HygR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the hygromycin resistance cassette, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). The hygromycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK076.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12790.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in publications making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.

- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the initial publication describing the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK077_P8_Lox71-NourR-Lox66 LMBP 12791

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + nourseothricin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK077_P8_Lox71-NourR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the nourseothricin resistance cassette, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). The nourseothricin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK077.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12791.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.

- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK078_P8_Lox71-KanR-Lox66 LMBP 12792

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + kanamycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK078_P8_Lox71-KanR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the neomycin resistance cassette, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). The neomycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK078.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12792.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.

- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pPTK079_P8_Lox71-ZeoR-Lox66 LMBP 12793

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + zeocin (25 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK079_P8_Lox71-ZeoR-Lox66
Plasmid type:	Recombinant plasmid
Cloned DNA:	Discosoma sp. red fluorescent protein DNA (DsRed1); mutated monomeric variant (mRFP1)
Promoter:	Escherichia coli tetracycline inducible promoter (PLtetO-1) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_8
Further information:	The plasmid was constructed by cloning the zeocin resistance cassette, flanked by Lox71 and Lox66 sites, in the synthetic pPTK_8 vector. This plasmid is a level 1 destination vector (OPENPichia part 8) for the OPENPichia modular cloning technology. OPENPichia parts 1 to 8 can be combined via BsaI restriction and ligation of the parts into a Pichia expression plasmid. Alternatively, a transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The PLtetO-1 promoter has 2 tetO operators and can be repressed by the Tet repressor (TetR) or activated by anhydrotetracycline (aTc). The zeocin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK079.
Authenticity:	The mRFP1 gene was sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12793.gb
Latest seqence update:	05/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.

- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.

- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_MultiGene_NourR LMBP 12794

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + nourseothricin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_MultiGene_NourR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS') Modular cloning right assembly connector E' (ConLE') Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp) Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; integrative
Parental clone:	pPTK004_P7_Stuffer pPTK072_P1_ConLS' pPTK075_P5_ConRE' pPTK080_P8_AmpR pPTK109_P2-4_GFP pPTK205_P6_Lox71-NourR-Lox66
Further information:	The plasmid was constructed by BsaI restriction on pPTK072_P1_ConLS', pPTK109_P2-4_GFP, pPTK075_P5_ConRE', pPTK205_P6_Lox71-NourR-Lox66, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 2 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The nourseothricin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK_0_003_NourR_Multi.
Authenticity:	Restriction enzyme pattern analysed at BCCM/GeneCorner: PvuII/XbaI. Additionally, the 5' half of the ampicillin resistance gene, the pMB1 ori, the ConLS' connector and the glpT-RBS-sfGFP cassette have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12794.gb
Latest seqence update:	02/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_MultiGene_KanR LMBP 12795

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + kanamycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_MultiGene_KanR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS')
	Modular cloning right assembly connector E' (ConLE')
	Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT)
	Pichia ketol-acid reductoisomerase promoter (ILV5)
	Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a)
	Escherichia coli rrnB operon T1 terminator
	Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp)
	Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli
	Pichia pastoris; integrative
Parental clone:	pPTK004_P7_Stuffer
	pPTK072_P1_ConLS'
	pPTK075_P5_ConRE'
	pPTK080_P8_AmpR
	pPTK109_P2-4_GFP
	pPTK206_P6_Lox71-KanR-Lox66
Further information:	The plasmid was constructed by BsaI restriction on pPTK072_P1_ConLS', pPTK109_P2-4_GFP, pPTK075_P5_ConRE', pPTK206_P6_Lox71-KanR-Lox66, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 2 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The neomycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK_0_004_KanR_Multi.
Authenticity:	Restriction enzyme pattern analysed at BCCM/GeneCorner: PvuII/XbaI. Additionally, the 5' half of the ampicillin resistance gene, the pMB1 ori, the ConLS' connector and the glpT-RBS-sfGFP cassette have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12795.gb
Latest seqence update:	02/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_MultiGene_HygR LMBP 12796

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + hygromycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_MultiGene_HygR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS') Modular cloning right assembly connector E' (ConLE') Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp) Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; integrative
Parental clone:	pPTK004_P7_Stuffer pPTK072_P1_ConLS' pPTK075_P5_ConRE' pPTK080_P8_AmpR pPTK109_P2-4_GFP pPTK204_P6_Lox71-HygR-Lox66
Further information:	The plasmid was constructed by BsaI restriction on pPTK072_P1_ConLS', pPTK109_P2-4_GFP, pPTK075_P5_ConRE', pPTK204_P6_Lox71-HygR-Lox66, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 2 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The hygromycin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK_0_005_HygR_Multi.
Authenticity:	Restriction enzyme pattern analysed at BCCM/GeneCorner: PvuII/XbaI. Additionally, the 5' half of the ampicillin resistance gene, the pMB1 ori, the ConLS' connector and the glpT-RBS-sfGFP cassette have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12796.gb
Latest seqence update:	02/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_MultiGene_ZeoR LMBP 12797

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + zeocin (25 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_MultiGene_ZeoR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS') Modular cloning right assembly connector E' (ConLE') Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp) Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo))
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; integrative
Parental clone:	pPTK004_P7_Stuffer pPTK072_P1_ConLS' pPTK075_P5_ConRE' pPTK080_P8_AmpR pPTK109_P2-4_GFP pPTK207_P6_Lox71-ZeoR-Lox66
Further information:	The plasmid was constructed by BsaI restriction on pPTK072_P1_ConLS', pPTK109_P2-4_GFP, pPTK075_P5_ConRE', pPTK207_P6_Lox71-ZeoR-Lox66, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 2 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The zeocin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK_0_002_ZeoR_Multi.
Authenticity:	Restriction enzyme pattern analysed at BCCM/GeneCorner: PvuII/XbaI. Additionally, the 5' half of the ampicillin resistance gene, the pMB1 ori, the ConLS' connector and the glpT-RBS-sfGFP-T1 cassette have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12797.gb
Latest seqence update:	02/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
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pMC_MultiGene_BlastR LMBP 12798

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + blasticidin (100 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_MultiGene_BlastR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S' (ConLS') Modular cloning right assembly connector E' (ConLE') Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT) Pichia ketol-acid reductoisomerase promoter (ILV5) Synthetic prokaryotic EM72 promoter
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Ampicillin (amp) Blasticidin (bsd)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; integrative
Parental clone:	pPTK004_P7_Stuffer pPTK066_P6_Lox71-BlastR-Lox66 pPTK072_P1_ConLS' pPTK075_P5_ConRE' pPTK080_P8_AmpR pPTK109_P2-4_GFP
Further information:	The plasmid was constructed by BsaI restriction on pPTK072_P1_ConLS', pPTK109_P2-4_GFP, pPTK075_P5_ConRE', pPTK066_P6_Lox71-BlastR-Lox66, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 2 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation. The blasticidin resistance cassette is flanked by two single-mutant LoxP sites (Lox71 and Lox66), and can be removed by Cre recombinase, leaving a double mutant LoxP site (Lox72). Other name of the plasmid is pPTK_0_002_BlastR_Multi
Authenticity:	Restriction enzyme pattern analysed at BCCM/GeneCorner: PvuII/XbaI. Additionally, the 5' half of the ampicillin resistance gene, the pMB1 ori, the ConLS' connector and the glpT-RBS-sfGFP cassette have been sequenced at BCCM/GeneCorner.
Sequence detail:	-
Sequence file:	p12798.gb
Latest seqence update:	30/07/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_Cre_NourR LMBP 12799

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + nourseothricin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_Cre_NourR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S (ConLS) Modular cloning right assembly connector 1 (ConR1) Phage P1 cre gene encoding recombinase
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Pichia peptide methionine sulfoxide reductase promoter (PMSR1) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Ampicillin (amp) Nourseothricin (ntc)
Replicon:	Escherichia coli plasmid pMB1 origin Pichia pastoris autonomously replicating sequence (ARS1)
Host range:	Escherichia coli Pichia pastoris
Parental clone:	pPTK004_P7_Stuffer pPTK015_P2_pMSR1 pPTK047_P4_AOX1tt pPTK070_P1_ConLS pPTK073_P5_ConR1 pPTK080_P8_AmpR pPTK201_P6_NourR pPTK_P3_Cre
Further information:	The plasmid was constructed by BsaI restriction on pPTK070_P1_ConLS, pPTK015_P2_pMSR1, pPTK_P3_Cre, pPTK047_P4_AOX1tt, pPTK073_P5_ConR1, pPTK201_P6_NourR, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 1 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation.
Authenticity:	The Cre gene and the region with the nourseothricin resistance gene, TEF1 terminator and ARS1 were sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12799.gb
Latest seqence update:	06/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_Cre_KanR LMBP 12800

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + kanamycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_Cre_KanR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S (ConLS) Modular cloning right assembly connector 1 (ConR1) Phage P1 cre gene encoding recombinase
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Pichia peptide methionine sulfoxide reductase promoter (PMSR1) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Ampicillin (amp) Neomycin (neo; G418; kanamycin (kan))
Replicon:	Escherichia coli plasmid pMB1 origin Pichia pastoris autonomously replicating sequence (ARS1)
Host range:	Escherichia coli Pichia pastoris
Parental clone:	pPTK004_P7_Stuffer pPTK015_P2_pMSR1 pPTK047_P4_AOX1tt pPTK070_P1_ConLS pPTK073_P5_ConR1 pPTK080_P8_AmpR pPTK202_P6_KanR pPTK_P3_Cre
Further information:	The plasmid was constructed by BsaI restriction on pPTK070_P1_ConLS, pPTK015_P2_pMSR1, pPTK_P3_Cre, pPTK047_P4_AOX1tt, pPTK073_P5_ConR1, pPTK202_P6_KanR, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 1 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation.
Authenticity:	The Cre gene was sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12800.gb
Latest seqence update:	06/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium

Restricted distribution:

- BCCM MTA adapted for OPENPichia
- RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL.
- The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department.
- When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL.
- When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_Cre_HygR LMBP 12801

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + hygromycin (50 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_Cre_HygR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S (ConLS) Modular cloning right assembly connector 1 (ConR1) Phage P1 cre gene encoding recombinase
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Pichia peptide methionine sulfoxide reductase promoter (PMSR1) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Ampicillin (amp) Hygromycin (hyg)
Replicon:	Escherichia coli plasmid pMB1 origin Pichia pastoris autonomously replicating sequence (ARS1)
Host range:	Escherichia coli Pichia pastoris
Parental clone:	pPTK004_P7_Stuffer pPTK015_P2_pMSR1 pPTK047_P4_AOX1tt pPTK070_P1_ConLS pPTK073_P5_ConR1 pPTK080_P8_AmpR pPTK200_P6_HygR pPTK_P3_Cre
Further information:	The plasmid was constructed by BsaI restriction on pPTK070_P1_ConLS, pPTK015_P2_pMSR1, pPTK_P3_Cre, pPTK047_P4_AOX1tt, pPTK073_P5_ConR1, pPTK200_P6_HygR, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 1 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation.
Authenticity:	The Cre gene and the region with the hygromycin resistance gene and TEF1 terminator were sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12801.gb
Latest seqence update:	06/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
Restricted distribution:	- BCCM MTA adapted for OPENPichia - RECIPIENT agrees to refer to the 'Plasmid reference' in the first publication making use of the MATERIAL. - The depositor will be informed of the customer's identity upon release of a sample outside the depositor's department. - When appropriate in accordance with academic customs, RECIPIENT agrees to include the depositor(s) as co-author(s) in the first publication making use of the MATERIAL. - When making use of the MATERIAL, RECIPIENT agrees to refer to ‘OPENPichia’ in the Materials and Methods section and in the acknowledgments of all publications, as well as when launching commercial products.

pMC_Cre_ZeoR LMBP 12802

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5aT1R
Host reference:	-
Helper plasmid:	-
Cultivation medium:	LB-Lennox + ampicillin (100 µg/ml) + zeocin (25 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pMC_Cre_ZeoR
Plasmid type:	Recombinant plasmid
Cloned DNA:	Modular cloning left assembly connector S (ConLS) Modular cloning right assembly connector 1 (ConR1) Phage P1 cre gene encoding recombinase
Promoter:	Pichia ketol-acid reductoisomerase promoter (ILV5) Pichia peptide methionine sulfoxide reductase promoter (PMSR1) Synthetic prokaryotic EM72 promoter
RBS:	-
Terminator:	Eremothecium gossypii translation elongation factor 1a terminator (TEF1a) Pichia pastoris alcohol oxidase 1 terminator (AOX1)
Selection marker:	Ampicillin (amp) Bleomycin (bleo; zeomycin (zeo; Zeocin); phleomycin (phleo))
Replicon:	Escherichia coli plasmid pMB1 origin Pichia pastoris autonomously replicating sequence (ARS1)
Host range:	Escherichia coli Pichia pastoris
Parental clone:	pPTK004_P7_Stuffer pPTK015_P2_pMSR1 pPTK047_P4_AOX1tt pPTK070_P1_ConLS pPTK073_P5_ConR1 pPTK080_P8_AmpR pPTK203_P6_ZeoR pPTK_P3_Cre
Further information:	The plasmid was constructed by BsaI restriction on pPTK070_P1_ConLS, pPTK015_P2_pMSR1, pPTK_P3_Cre, pPTK047_P4_AOX1tt, pPTK073_P5_ConR1, pPTK203_P6_ZeoR, pPTK004_P7_Stuffer and pPTK080_P8_AmpR, and ligating the OPENPichia parts together. This plasmid is a level 1 multigene destination vector for the OPENPichia modular cloning technology. A transcriptional unit, consisting of OPENPichia parts 1 to 5 can be assembled via BsaI restriction and ligation. Several transcriptional units can be combined in a multigene destination vector via BsmBI restriction and ligation.
Authenticity:	The Cre gene and the region with the zeocin resistance gene, TEF1 terminator, ARS1 and the 3' end of the ampicillin gene were sequenced at BCCM/GeneCorner.
Sequence detail:	–
Sequence file:	p12802.gb
Latest seqence update:	06/08/2021
Plasmid reference:	Vanluchene et al., In preparation (2021)
Other collection no:	-

History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
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pPTK109_P2-4_sfGFP LMBP 13775

These validated data are a snapshot at a given moment, further updates are always possible.

Host/Plasmid information

Host for distribution:	Escherichia coli K12 DH5αT1R
Host reference:	-
Related host reference:	Killmann et al., J. Bacteriol. 178 (1996), 6913-6920 [PMID: 8955314; DOI: 10.1128/jb.178.23.6913-6920.1996]
Helper plasmid:	-
Cultivation medium:	LB-Lennox + chloramphenicol (34 µg/ml)
Cultivation temperature:	37°C
Biosafety level:	L1
Cultivation remarks:	-

Plasmid Description

Plasmid name:	pPTK109_P2-4_sfGFP
Plasmid type:	Recombinant plasmid
Cloned DNA:	Synthetic green fluorescent protein DNA (GFP); superfolder GFP (sfGFP)
Promoter:	Escherichia coli glycerol-3-phosphate transporter promoter (glpT)
RBS:	Ribosome binding site (RBS); synthetic sequence
Terminator:	Escherichia coli rrnB operon T1 terminator Phage T7 early transcription terminator (T7Te)
Selection marker:	Chloramphenicol (cam)
Replicon:	Escherichia coli plasmid pMB1 origin
Host range:	Escherichia coli Pichia pastoris; as part of the OPENPichia plasmid kit
Parental clone:	pPTK_0
Further information:	The plasmid was constructed by cloning the synthetic sfGFP coding sequence, codon optimised for P. pastoris, in the synthetic pPTK_0 vector. This plasmid contains a fluorescent marker cassette intended for cloning into a multigene acceptor plasmid. It thereby acts as a combination of OPENPichia parts 2, 3 and 4 for the OPENPichia modular cloning technology. Upon BsaI restriction, it leaves appropriate overhangs to combine with OPENPichia part 1 and OPENPichia part 5. Other name of the plasmid is pPTK109.
Authenticity:	Restriction enzyme pattern analysed at GeneCorner: NcoI and PvuII. The region containing the sfGFP coding sequence, including promoter and terminator sequences, and most of the pMB1 ori and the chloramphenicol resistance gene, have been sequenced at GeneCorner.
Sequence detail:	-
Sequence file:	p13775.gb
Latest seqence update:	06/07/2023
Plasmid reference:	Van Herpe et al., bioRxiv (2022) [DOI: 10.1101/2022.12.13.519130]
Other collection no:	-
History of deposit:	This plasmid was deposited by S. Vanmarcke(1)(2) and Prof. Dr N. Callewaert(1)(2). It was constructed by Dr K. Vandewalle(1)(2) and Dr R. Vanluchene(1)(2). (1) VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium (2) Department of Biochemistry and Microbiology, Ghent University, Ghent, Belgium
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