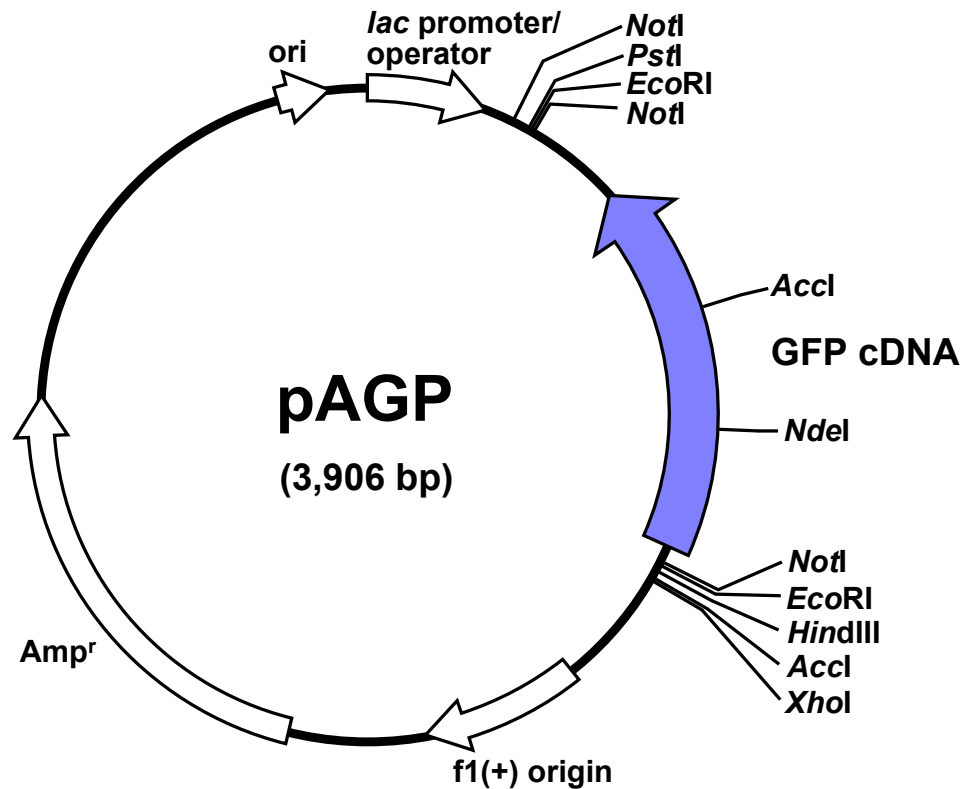


pAGP	
Cat. No.	P-010
Gene/Insert name:	Green Fluorescent Protein (<i>A. victoria</i>)
Vector backbone:	pBluescript SK
Vector type:	<i>E. coli</i>
Backbone size w/o insert (bp):	2,958
Bacterial resistance:	Ampicillin
Growth strain:	JM83
Growth temperature (°C):	37
Growth instructions:	pAGP is resistant to ampicillin (50 µg/mL)
High or low copy:	High copy
Vector map:	pAGP
Coding sequence:	Nucleotide sequence & Amino acid sequence
Plasmid sequence:	pAGP (3,906 bp)
Restriction enzyme list:	Restriction enzyme sites of pAGP
GenBank Accession No.:	L29345
Size:	10 µg
Terms and Licenses:	MTA
Laboratory Reagent For Research Use Only	

Green Fluorescent Protein (*Aequorea victoria*)

Cat. No. P-010

Name: pAGP
Insert: Green Fluorescent Protein cDNA
Vector: pBluescript SK



• DNA fragment:

M S K G --- L Y K ***
ATG-AGT-AAA-GGA-.....-CTA-TAC-AAA-TAA

• Feature for pAGP:

Residue	Source	Comments
1-331	1-331	pBluescript SK backbone
1-230	1-230	<i>lac</i> promoter/operator
521-1,234	1-714	GFP ORF
1,274-3,906	326-2,958	pBluescript SK backbone
1,536-1,842	588-894	f1(+) origin
3,733	2,785	ori: Origin of replication
2,105-2,965	1,157-2,017	Amp ^r : Ampicillin resistance gene

Ref.

- 1) GFP amino acid seq. & DNA seq.: GenBank Accession No. L29345
Inouye, S. and Tsuji, F.I. *FEBS Lett.* (1994) 341: 277-280.

Gene coding region (ORF: GFP)

Nucleotide sequence

GAATTCGCGGCCGCTACTACACACGAATAAAAAGACAACAAAG**ATGAGTAAAGGAGAAGAAC**TTTTCACTG
GAGTTGTCCCAATTCCTTGTGAATTAGATGGCGATGTTAATGGGCAAAAATTCCTGTCTCAGTGGAGAGGG
TGAAGGTGATGCAACATACGGAAACTTACCCTTAAATTTATTTGCACACTCTGGGAAGCTACCTGTTCCA
TGGCCAACACTTGTCACTACTTTCTCTTATGGTGTTC AATGCTTTTCAAGATACCCAGATCATATGAAAC
AGCATGACTTTTTCAAGAGTGCCATGCCCGAAGTTATGTACAGGAAAGAACTATATTTTACAAAGATGA
CGGGAACTACAAGACACGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATAGAATCGAGTTAAAA
GGTATTGATTTTAAAGAAGATGGAAACATTCCTGGACACAAAATGGAATACAAC TATAACTCACATAATG
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GACAACCATTACCTGTCCACACAATCTGCCCTTTCCAAAGATCCCAACGAAAAGAGAGATCACATGATCC
TTCTTGAGTTTGTAAACAGCTGCTGGGATTACACATGGCATGGATGAAC TATACAAAT**TAA**ATGTCCAGACT
TCCAATTGACACTAAAGTGTCCGAACAATTACTAAATTCAGGGTTCCTGGTTAAATTCAGGCTGAGAC
TTTATTTATATATTTATAGATTCATTAATAATTTTATGAATAATTTATTGATGTTATTAATAGGGGCTATT
TTCTTATTAATAATAGGCTACTGGAGTGTATAGCGGCCGCGAATTC

Amino acid sequence

*KTTK**MSKGEEL**FTGVVPI LVELDGDVNGQKFSVSGEGEGDATYGLTLKFICTTGKLPVPWP TLVTTFS
YGVQCF SRYPDHMKQHDFFKSAMPEGYVQERTIFYKDDGNYKTRAEVKFEGDTLVNRIELK GIDFKEDGN
ILGHKMEYNYN SHNVYIMADKPKNGIKVNFKIRHNIKDGSVQLADHYQQNTPIGDGPVLLPDNH YLSTQS
ALSKDPNEKR DHMILLEFVTAAGITHGMDELYK*

pAGP (3,906 bp)

GCGCCCAATACGCAAACC GCCTCTCCCCGCGCGTTGGCCGATTTCATTAATGCAGCTGGCAGCAGAGTTT
CCCGACTGGAAAACGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGG
CTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTTGTGAGCGGATAACAATTTACACAGGAAA
CAGCTATGACCATGATTACGCCAAGCTCGAAATTAACCCCTCACTAAAGGGAACAAAAGCTGGAGCTCCAC
CGCGGTGGCGGCCGCTCTAGAAGTAGTGATCCCCCGGGCTGCAGGAATTCGCGGCCGCTATACACTCCA
GTAGCCTATTTAATAAGAAAATAGCCCTATTAATAACATCAATAAATTTATTCATAAAATTTTAATGAAT
CTATAAATATATAAAATAAAGTCTCAGCCTGAAATTAACCAGGAACCCCTGAGAATTTAGTAATTTGTTCCGA
CACTTTAGTGTCAATTGGAAGTCTGGACATTTATTTGTATAGTTTCATCCATGCCATGTGTAATCCCAGCA
GCTGTTACAAACTCAAGAAGGATCATGTGATCTCTCTTTTTCGTTGGGATCTTTGGAAAGGGCAGATTGTG
TGGACAGGTAATGGTTGTCTGGTAAAAGGACAGGGCCATCGCCAATTGGAGTATTTTGTGATAATGGTC
TGCTAATTGAACGCTTCCATCTTTAATGTTGTGTCTAATTTTGAAGTTAACTTTGATTCCATCTTTGGT
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ACGTGTCTTGTAGTTCCCGTCATCTTTGTAAAATATAGTTCTTTCCGTACATAACCTTCGGGCATGGCA
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GGAGCCTATGGA AAAACGCCAGCAACCGCGCTTTTTTACGTTCTTGGCCTTTTGTGCTGGCCTTTTGTCTCA
CATGTTCTTTCTGCGTTATCCCCGATTTCTGTGGATAACCGTATTACCAGCCTTTGAGTGAGCTGATACC

GCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCACTGAGCGAGGAAGCGGAAGA

Residue	Source	Comments
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3,733	2,785	ori: Origin of replication
2,105-2,965	1,157-2,017	Amp ^r : Ampicillin resistance gene

Restriction enzyme sites of pAGP

Enzyme Name	Sequence	Count	Cutting Positions
AccI	GT!MKAC	2	787, 1303
ApaI	GGGCC!C	1	1321
Asp718I	G!GTACC	1	1323
BamHI	G!GATCC	1	309
BclI	T!GATCA	0	-
BglII	A!GATCT	0	-
EcoRI	G!AATTC	2	327, 1275
EcoRV	GAT!ATC	1	1283
HincII	GTY!RAC	2	749, 1304
HindIII	A!AGCTT	1	1287
KpnI	GGTAC!C	1	1327
MluI	A!CGCGT	0	-
NcoI	C!CATGG	1	1068
NdeI	CA!TATG	1	1006
NheI	G!CTAGC	0	-
NotI	GC!GGCCGC	3	290, 334, 1268
PstI	CTGCA!G	1	325
SacI	GAGCT!C	1	277
SalI	G!TCGAC	1	1302
ScaI	AGT!ACT	1	2412
SmaI	CCC!GGG	1	317
StuI	AGG!CCT	0	-
XbaI	T!CTAGA	1	297
XhoI	C!TCGAG	1	1308

Supplier	Contact us
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