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Product datasheet for MR224127

Peg3 (NM_008817) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peg3 (NM_008817) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Peg3
Synonyms:	AL022617; ASF-1; End4; Gcap4; mKIAA0287; Pw1; Zfp102
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR224127 representing NM_008817, codon optimized.
Due to the complexity of NM_008817, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACCACCACGAAGACGATACCAATTCAGACATGAACTCAGATGACGACATGAGTCGCAGCGGCAGGG
AAACTCCCCCTCCAAGGCCATCTCATGCTTTCGGGTCCGAGCGCGACCTGGAAAGGCGCGGTCGGTCCAG
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AACCTGTATGAATATGGTGAGAGTTTTATCCACTCAGTAGCAGTCAATGAAGTGCAGAAGGGCCAAGGAG

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GAGGCAAGCGCTTTGAATGTAAAGAGTGCGGGGAAACATTTTCTAGGAGTGCCGCCCTGGCAGAGCACCG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224127 representing NM_008817
Red=Cloning site Green=Tags(s)

MYHHEDDTNSDMNSDDDMSRSGRETPPPRPSHAFGSERDLERRGRSRDVEPRDRWPYTRNPRSRLPQRDL
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NERPPPRFPRPNDNWKDSSSSRRESVIQERGYEGSAFRGGFRFNADLASRSRALERKRRYHFDSDERGSG
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RERERELGEPFLTCPNFNEFRKMYRKDKIYECKVCGESFLHLSSLREHQKIHTRGNPFENKSRMCEETFV
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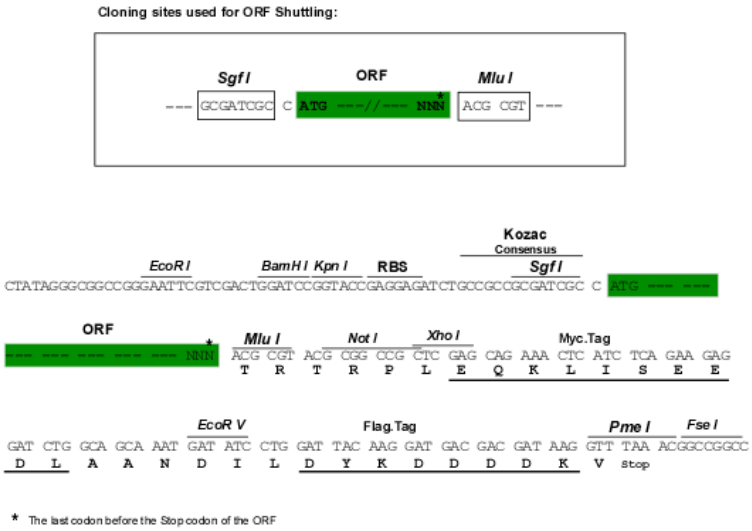
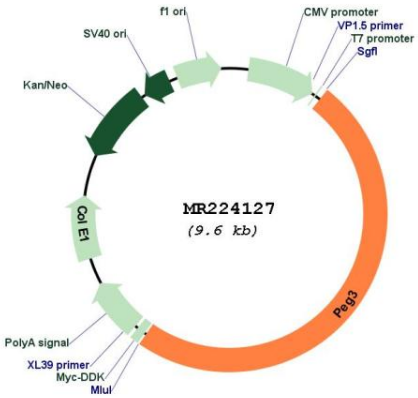
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_008817
ORF Size:	4713 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_008817.2, NP_032843.2
RefSeq Size:	6624 bp
RefSeq ORF:	4716 bp
Locus ID:	18616
UniProt ID:	Q3URU2
Cytogenetics:	7 3.89 cM
MW:	178.9 kDa
Gene Summary:	Induces apoptosis in cooperation with SIAH1A. Acts as a mediator between p53/TP53 and BAX in a neuronal death pathway that is activated by DNA damage. Acts synergistically with TRAF2 and inhibits TNF induced apoptosis through activation of NF-kappa-B. Plays a role in regulating maternal behavior and offspring growth.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224127