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Product datasheet for MC225362

Epg5 (NM_001195633) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epg5 (NM_001195633) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epg5
Synonyms:	4732475F16; 5430411K18Rik; AI661957; AW456499; mKIAA1632
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC225362 representing NM_001195633
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGGCTGTGAAGCCCCGCCGGGCCAAGGCCAAGGCCAGCCGCACCAAAGGCAAGGAAAAGAAGA
AGCATGAAGCCCTTCAGACTTGTGATGCAGGTCCCCTGCCAGAGACCTGTCGCGAGCAGGAGAGCCCGTG
TCCAGCTTCTGAACTCAAAGGAGATGACCTGAAGTCGTCTGCTGACCCCCAGCTCCACAGTGATGTGTGT
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GAAGGTGGACCCTGGGGACAACGTTATAGCTAAAGGTGAACCTTGTAAGAACTTCCCGGAAGTAGAGGAC
CACACACTCATCCAGTGTGGGCCTCCAGAGAGCACACTGCAGCCTGACTTTCCCTGCACTCAGCAGGCAG
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CCTTTTATACAGATCAAAGTGTTGAATAACCCTTCAGGGGTCTTTCATTTTATGCAGTCCCTTGCCCTGC
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GGTTCCGAGTGGCTGCCCGAAGCATGGCTGCCTTCCTGTTGGTTCAGGTCCCTGCAGAAGACCAGATTCG
TCTGAAACCCAGCTCTGAGTTACATCTGGCTCCAAAAGCTCAGCAGGTGCTGACAGCTCTGGAGTCCATG
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GCCACTGCCTTCAGAATGGGAAAAGCTTCCTGGCCCTTCTTGTCAACCGCCTCTATCCAGAAGTGCATTA
CCTGGACAACATCCGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001195633

Insert Size: 7719 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001195633.1, NP_001182562.1
RefSeq Size:	9672 bp
RefSeq ORF:	7719 bp
Locus ID:	100502841
UniProt ID:	Q80TA9
Cytogenetics:	18 E3
Gene Summary:	Involved in autophagy. May play a role in a late step of autophagy, such as clearance of autophagosomal cargo. Plays a key role in innate and adaptive immune response triggered by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides from pathogens, and mediated by the nucleotide-sensing receptor TLR9. It is necessary for the translocation of CpG dinucleotides from early endosomes to late endosomes and lysosomes, where TLR9 is located.[UniProtKB/Swiss-Prot Function]