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Product datasheet for MR216294

Pigk (NM_178016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigk (NM_178016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pigk
Synonyms:	3000001O05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR216294 representing NM_178016
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCCCCTGCTTCCTCACTCTGCGGGTGGCTACCCTGGCCGCCTTGGCGCTCTTGTCTCTCGGCA
GCTCTGCCGCTGGACACATCGAGGATCAAGCCGAACAGTTCTTTAGAAGTGGACACACAAATAACTGGGC
TGTTTTGGTGTGCACATCCCGATTCTGGTTTAACTACCGACATGTTGCAAATACTCTTTCTGTTTATAGA
AGCGTCAAGAGGCTAGGTATCCCGGACAGTCACATTGTCCTGATGCTTGCTGATGACATGGCGTGCAATG
CTCGGAACCCCAAGCCAGCCACAGTGTTCAGCCACAAGAACATGGAGCTCAATGTGTATGGAGACGATGT
GGAAGTGGACTACAGAAGCTATGAGGTAACTGTGGAGAACTTTTTAAGGGTATTGACCGGGAGGGTTCCA
CCCAGTACCCCTCGCTCAAAGCGTCTTCTTTCCGACGACAGAAGCAATATCCTCATTTATATGACAGAGT
CCGCTCCTGCCACACCCGCTCTGGCTTTTGTCCCCCTTGGGTCGTCCTTCTCAGCACATAATAGAACTGC
AGATCTGCCCTTCTCTGCCGCACACTCCCAAATTCTACTTTTGAAGGATTTACTCAGTAACTCCTTGAGT
CATGGAGGGAATGGTTTCTTGAAATTCCAAGATTCTGAAGAAATCACCAACATAGAACTTGCAGATGCGT
TTGAACAGATGTGGCAGAAGAGACGCTACAATGAGCTGCTGTTCATTATTGACACTTGCCAGGGCGCGTC
CATGTACGAGCGGTTCTACTCTCCTAACATCATGGCCTTGGCTAGTAGCCAGGTGGGAGAGGATTCGCTG
TCGCACCAGCCTGACCCTGCGATTGGAGTTCATCTTATGGATAGGTACACGTTTTATGTCTTGGAATTTT
TGGAAGAAATTAATCCAGCTAGCCAAACTAACATGAACGACCTTTTTCAAGTGTGTCCCAAAAGTCTCTG
TGTGTCGACCCCTGGACATCGCACTGACCTTTTCCAGCGAGATCCAAAAAATGTCCTGATCACCGATTTC
TTCGGAAGTGTGCGCAAGGTGGAAATCACAACAGAGAAGATCAGTTTGCAGTGGGATTCACAAGTCGTGG
ACAGCAGTTCTAAAGAAGACGGCACGGCCGAGGAGCGCATGGGACCTCTCAAGTATGCTGAGCAGCTCCC
GGTGGCTCAGATAATACACCAGAAGCCAAAGCCGAGAGACTGGCACCCTCCCGGAGGCTTCATCCTGGGG
CTGTGGGCGCTCATCATCATGGTCTTCTTCAAGACCTATGGGATCAAGCATATGAAGTTCATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

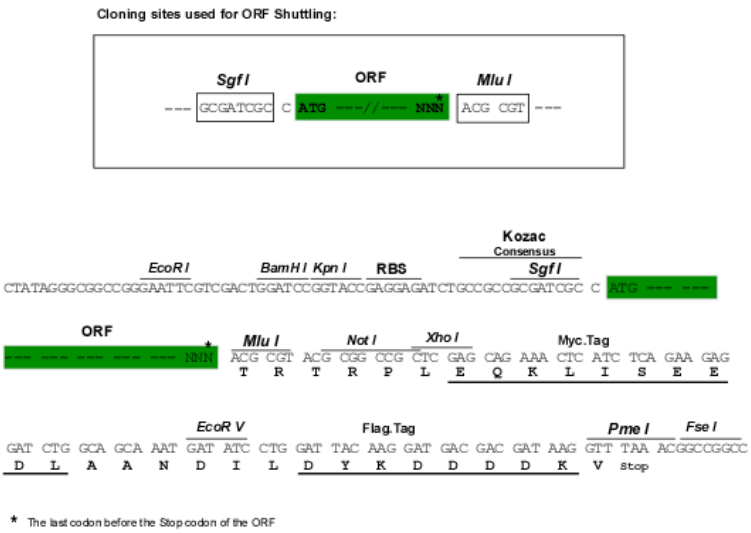
>MR216294 representing NM_178016
Red=Cloning site Green=Tags(s)

MAAPCFLTLRVATLAALALLSLGSSAAGHIEDQAEQFFRSGHTNNWAVLVCTSRFWFNYRHVANTLSVYR
SVKRLGIPDSHIVLMLADDMACNARNPKPATVFSHKNMELNVYGDDVEVDYRSYEVTVENFLRVLTGRVP
PSTPRSKRLLSDDRSNILIYMTESAPATPALAFVPLGSSFSAHNRTADLPFSAAHSQILLLKDLLSNSLS
HGGNGFLKFQDSEEITNIELADAFEQMWQKRRYNELLFIIDTCQGASMYERFYSPNIMALASSQVGEDSL
SHQPDPAIGVHLMDRYTFYVLEFLEEINPASQTNMNDLFQVCPKSLCVSTPGHRTDLFQRDPKNVLITDF
FGSVRKVEITTEKISLQWDSQVVDSSSKEDGTAEERMGPLKYAEQLPVAQIIHQKPKPRDWHPPGGFILG
LWALIIMVFFKTYGIKHMKFIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178016

ORF Size: 1326 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_178016.3, NP_821135.1

RefSeq Size: 4885 bp

RefSeq ORF: 1329 bp

Locus ID: 329777

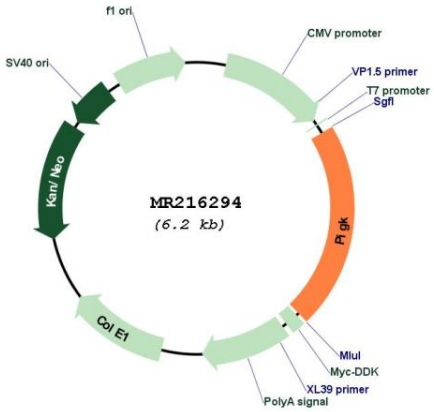
UniProt ID: Q9CXY9

Cytogenetics: 3 H3

MW: 50.2 kDa

Gene Summary: Mediates GPI anchoring in the endoplasmic reticulum, by replacing a protein's C-terminal GPI attachment signal peptide with a pre-assembled GPI. During this transamidation reaction, the GPI transamidase forms a carbonyl intermediate with the substrate protein (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216294