

Product datasheet for MR227589

Pacrg (NM_027032) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pacrg (NM_027032) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pacrg
Synonyms:	1700008H23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227589 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGAAGAGGACTAACTGCTGCCACAACAGACGTTCCAGGTGCACCAGCCTCGTTCCTGGTTTCTG
AGGGCTTCACAGTCAAAGCCATGATGAAAACTCAGTCGTGCGGGGTCTCCAGTTCAGGGGCATTTAA
AGAAAGGCCGGCCAAACCCACCACTTCCGAAAATGTTATGAGCGAGGAGACTTCCCAATCGCCCTTGAG
CATGACTCGAAAGGAAACAAAATTCCTGGAAGTTGAGATTGAGAAGTTGGACTACCATCATTACCTGC
CTCTGTTTTTTGATGGGCTTTCTGAAATGACGTTCCCTATGAGTTTTTTGCTCGCGGAGGAATCCACGA
CATGCTGGAACACGGAGGAACAAGATTCTACCTGTCATTCTCAGCTCATTATCCCAATAAAAAATGCC
TTGAACCTCCGAAACAGACAGATCATCTGTGTGACGCTCAAGTTCTCCAGCATCTGTTGTGTCTTCGG
AGATGGTGGGCGAAGCTTTGTTGCCCTACTACCGTCAGATCCTGCCAATCCTGAACATCTTTAAGAACAT
GAATGTGAACTCCGGGATGGCATCGACTACAGCCAGCAGAAGAGGGAGAACATTGGCGACCTGATCCAG
GAGACCCTAGAAGCCTTCGAGCGCTACGGAGGGGAGGACGCCTTCATCAACATCAAATACATGGTGCCTA
CCTATGAGTCGTGCTTGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227589 protein sequence
 Red=Cloning site Green=Tags(s)

MPKRTKLLPQQTFQVHQPRSLVSEGFTVKAMMKNSVVRGPPVAGAFKERPAKPTTFRKCYERGDFPIALE
 HDSKGNKIAWKVEIEKLDYHHYLPLFFDGLSEMTFPYEFFARRGIHDMLEHGNGKILPVIPQLIIPKNA
 LNLNRNQIICVTLKVLQHLVVSSEMVGALLPYRQILPILNIFKNMNVNSGDGIDYSQQKRENIGDLIQ
 ETLEAFERYGGEDAFINIKYMVPTYESCLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027032

ORF Size: 726 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_027032.2](#), [NP_081308.1](#)

RefSeq Size: 1355 bp

RefSeq ORF: 726 bp

Locus ID: 69310

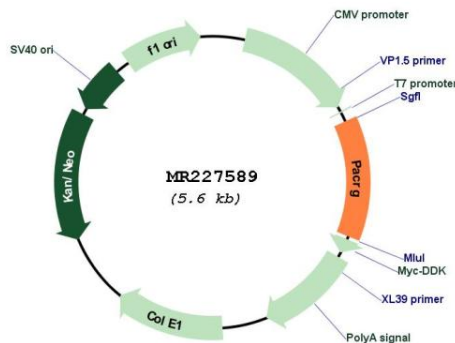
UniProt ID: [Q9DAK2](#)

Cytogenetics: 17 7.8 cM

MW: 27.7 kDa

Gene Summary: Suppresses cell death induced by accumulation of unfolded Pael receptor (Pael-R, a substrate of Parkin). Facilitates the formation of inclusions consisting of Pael-R, molecular chaperones, protein degradation molecules and itself when proteasome is inhibited (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227589