

Product datasheet for MR214789

Pga5 (NM_021453) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pga5 (NM_021453) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pga5
Synonyms:	1110035E17Rik; Pepf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214789 representing NM_021453 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTGGCTCTGGGTCTTGGGCTTGTGGCCCTCTCAGAGTGCTTGGTCAAAATCCCTCTGATGAAGA
TTAAGTCCATGCGTGAAACCTGCGGGAAGCCAAAGTGCTGAAGGATTACCTGGAGAAGTACCCTCGAAG
CCGTGCCCACGTGCTTCTTGAGCAGCGCCGAACCCAGCCGTAACCTATGAGCCTATGAGGAACCTACCTA
GACCTGGTCTACATTGGCATCATCAGCATTGGCAGCCCCCTCAGGAGTTCAGGGTTGTCTTGGATACTG
GATCTTCAGTCTGTGGGTACCATCTCTATTGCTCCAGCCCAGCCTGCGCTCACCACAAAGCCTTCAA
CCCGCTTCGGTCTTCCACTTTCCTGGTCTCAGGCCGACCTGTGAATGTTGCCTATGGCTCAGGAGAGATG
TCGGGATTTCTTGCTATGACACTGTGAGGATTGGGGACCTCACGTTGTGGCCAGGCCTTTGGCTGA
GCCTGGAAGAACCTGGCATTTTCATGGAATATGCTGTCTTTGATGGTATCCTGGGGCTGGGATACCCCAA
CCTTGGCCTTCAGGGAATCACACCCGTCTTTGACAACCTGTGGCTACAAGGCCTCATCCCCAGAATCTC
TTTGCCTTCTACTTGAGCAGCAAGGATGAAAAGGCGAGCATGCTGATGCTAGGTGGAGTGGATCCCTCCT
ACTACCATGGAGAGCTTCACTGGGTACCAAGTGTCCAAGCCAGCTACTGGCAATTAGCTGTGGATAGCAT
CTCCATGAATGGGAGGTCATTGCCTGTGATGGTGGCTGCCAAGGTATTATGGACACAGGGACCTCCTTG
CTGACCGGCCCCGAAGCTCCATCGTTAACATCCAGAATCTAATTGGTGCCAAGGCTTCTGGTGACGGCG
AGTACTTCTCAAGTGTGACACCATCAACACCCTGCCTGATATTGTCTTACCATCGGCAGTGTTACCTA
CCCAGTGCCAGCCAGTGCCTACATCCGAAAGGATCGGTACACAATTGCAGGAGCAACTTTGAGGAGGGC
ATGGATGACCCATCAGACCCTGAGATGTGGGTGCTGGGGATGTCTTCTGAGGCTGTATTTACCGTGT
TTGATCGGGCAAATAACAGGATTGGTCTGGCTCTGCTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR214789 representing NM_021453
 Red=Cloning site Green=Tags(s)

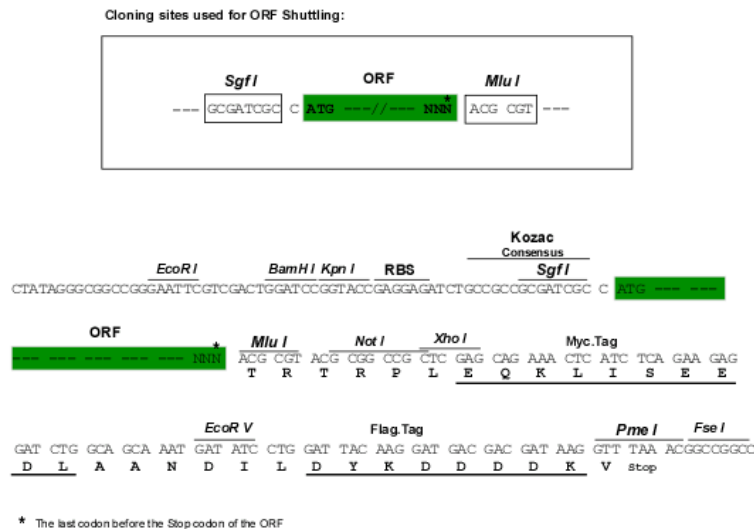
MKWLWVLGLVALSECLVKIPLMKIKSMRENLRSQLKDYLEKYPRSAHVLLQRRNPVITYEPMRNYL
 DLVYIGIISIGTPPQEFVRVLDTGSSVLWVPSIYCSPACAHKAFNPLRSSTFLVSGRPVNVAYGSGEM
 SGFLAYDTVRIGDLTVVAQAFGLSLEPGIFMEYAVFDGILGLGYPNLGLQGITPVFDNLWLQGLIPQNL
 FAFYLSSKDEKGSMLMLGGVDPSTYYHGLHWVPVSKPSYWQLAVDSISMNGEVIACDGGCQGIMDTGTSL
 LTGPRSSIVNIQNLIGAKASGDGEYFLKCDTINTLPDIVFTIGSVTPVPASAYIRKDRSHNCRSNFEEG
 MDDPSDPEMWVLGDVFLRLYFTVFDNRNRIGLAPAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9059_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021453

ORF Size: 1161 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021453.4](#), [NP_067428.2](#)

RefSeq Size: 1416 bp

RefSeq ORF: 1164 bp

Locus ID: 58803

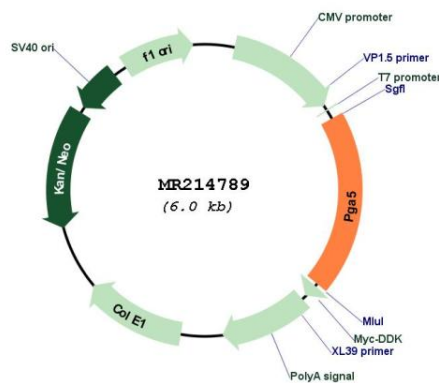
UniProt ID: [Q9D106](#)

Cytogenetics: 19

MW: 42.8 kDa

Gene Summary: Shows particularly broad specificity; although bonds involving phenylalanine and leucine are preferred, many others are also cleaved to some extent (By similarity). May play a role as a specialized neonatal digestive enzyme (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214789