

Product datasheet for **MG214789**

Pga5 (NM_021453) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pga5 (NM_021453) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pga5
Synonyms: 1110035E17Rik; Pepf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG214789 representing NM_021453
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGGCTCTGGGTCTTGGGCTTGTGGCCCTCTCAGAGTGCTTGGTCAAAATCCCTCTGATGAAGA
 TTAAGTCCATGCGTGAAAACCTGCGGGAAAGCCAAGTGTGAAGGATTACCTGGAGAAGTACCCTCGAAG
 CCGTGCCACGTGCTTCTTGAGCAGCGCCGGAACCCAGCCGTAACCTATGAGCCTATGAGGAACTACCTA
 GACCTGGTCTACATTGGCATCATCAGCATTGGCACGCCCCCTCAGGAGTTCAGGGTTGTCTTGATACTG
 GATCTTCAGTCCGTGGGTACCATCCATCTATTGCTCCAGCCAGCCTGCGCTCACCACAAGCCTTCAA
 CCCGTTTCGGTCTCCACTTTCCTGGTCTCAGGCCGACCTGTGAATGTTGCCTATGGCTCAGGAGAGATG
 TCCGGATTTCTGCTATGACACTGTCAGGATTGGGGACCTCACGTTGTGGCCAGGCCTTTGGCTGA
 GCCTGGAAGAACCTGGCATTTTCATGGAATATGCTGTCTTTGATGGTATCCTGGGGCTGGGATACCCCAA
 CCTTGGCCTTCAGGGAATCACACCCGTCTTTGACAACCTGTGGCTACAAGGCCTCATCCCCAGAATCTC
 TTTGCCTTCTACTTGAGCAGCAAGGATGAAAAGGCGAGCATGCTGATGCTAGGTGGAGTGGATCCCTCCT
 ACTACCATGGAGAGCTTCACTGGGTACCAGTGTCCAAGCCAGCTACTGGCAATTAGCTGTGGATAGCAT
 CTCCATGAATGGGAGGTCATTGCCTGTGATGGTGGCTGCCAAGGTATTATGGACACAGGGACCTCCTTG
 CTGACCGGCCCCCGAAGCTCCATCGTTAACATCCAGAATCTAATTGGTGCCAAGGCTTCTGGTGACGGCG
 AGTACTTCTCAAGTGTGACACCATCAACACCCTGCCTGATATTGTCTTACCATCGGCAGTGTTACCTA
 CCCAGTGCCAGCCAGTGCCTACATCCGAAAGGATCGGTACACAATTGCAGGAGCAACTTTGAGGAGGGC
 ATGGATGACCCATCAGACCCTGAGATGTGGGTGCTGGGGATGTCTTCTGAGGCTGTATTTACCGTGT
 TTGATCGGGCAAATAACAGGATTGGTCTGGCTCCTGCTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214789 representing NM_021453
 Red=Cloning site Green=Tags(s)

MKWLWVLGLVALSECLVKIPLMKIKSMRENLRSQLKDYLEKYPRRAHVLLQRRNPVITYEPMRNYL
 DLVYIGIISIGTPPQEFRVLDTGSSVLWVPSIYCSSPACAHHKAFNPLRSSTFLVSGRPVNVAYGSGEM
 SGFLAYDTRIGDLTVVAQAFGLSLEEPGIFMEYAVFDGILGLGYPNLGLQGITPVFDNLWLQGLIPQNL
 FAFYLSKDEKGSMLMLGGVDPSSYYHGLHWVPVSKPSYWQLAVDSISMNGEVIACDGGCQGITDGTSL
 LTGPRSSIVNIQNLIGAKASGDGEYFLKCDTINTLPDIVFTIGSVTYPVPASAYIRKDRSHNCRSNFEEG
 MDDPSDPEMWVLGDVFLRLYFTVFDRANNRIGLAPAA

TRTRPLE - GFP Tag - V

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.

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

RefSeq Size: 1416 bp

RefSeq ORF: 1164 bp

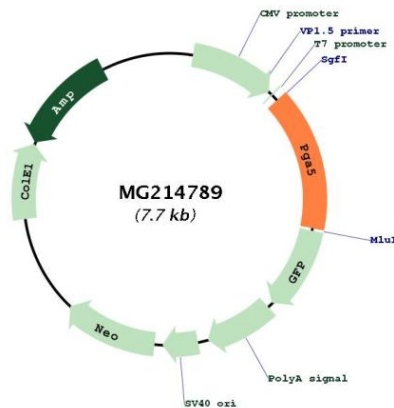
Locus ID: 58803

UniProt ID: [Q9D106](#)

Cytogenetics: 19

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 MG214789