

Product datasheet for **RG202074**

PAM (NM_138821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAM (NM_138821) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAM
Synonyms:	PAL; PHM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG202074 representing NM_138821
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTGGCCGCTCCCTAGCCTGCTAGTTCCTTGTGTTTTCCAAGCAGCTGTTTGGCTTCCGAAGCC
CACTTTCTGTCTTTAAGAGGTTTAAAGAACTACCAGACCATTTTCCAATGAATGTCTTGGTACCACCAG
ACCCGTAGTTCCTATTGATTCATCAGATTTTGCATTGGATATTCGCATGCCTGGGGTTACACCTAAACAG
TCCGATACATACTTCTGCATGTCTATGCGAATACCAGTGGATGAGGAAGCCTTCGTGATTGACTTCAAGC
CTCGAGCCAGCATGGATACTGTCCATCACATGTTACTTTTTGGATGCAATATGCCTTCATCCACTGGAAG
TTACTGGTTTTGTGATGAAGGAACCTGTACAGATAAAGCCAATATTCTGTATGCCTGGGCGAGAAATGCT
CCCCCTACCCGGCTCCCCAAAGGTGTGGATTAGAGTTGGAGGAGAGACTGGAAGTAAATACTTTGTAC
TACAGGTACACTATGGGGATATTAGTGTCTTTAGAGATAATAACAAGGACTGTTCTGGTGTGCTTACA
CCTCACACGTCTGCCACAGCCTTAATTGCTGGCATGTACCTTATGATGTCTGTTGACACTGTTATCCCA
GCAGGAGAAAAAGTGGTGAATTCGACATTTTCATGCCATTATAAAAAATTATCCAATGCATGTCTTTGCC
ATAGAGTTCACACTCACCATTTAGGTAAGGTAGTAAGTGGATACAGAGTAAGAAATGGACAGTGGACACT
GATTGGACGGCAGAGCCCTCAGCTGCCACAGGCTTCTACCCTGTGGGCGATCCAGTTGATGTAAGTTTT
GGTGACCTACTGGCTGCAAGATGTGATTCACTGGTGAAGGAAGGACAGAAGCCACACACATTGGTGGCA
CGTCTAGTGATGAAATGTGCAACTTATACATTATGATTACATGGAAGCCAAGCATGCAGTTTCTTTTCAT
GACCTGTACCCAGAATGTAGCTCCAGATATGTTTACAACCATACCACCAGAGGCCAACATCCAATTCCC
GTGAAGTCTGATATGTTATGATGCATGAACATCATAAAGAAACAGAATATAAAGATAAGATTCTTTTAC
TACAGCAGCCAAAACGAGAAGAAGAAGTGTAGACCAGGATTTCCACATGGAAGAGGCACTGGATTG
GCCTGGAGTATACTTGTACCAGGCCAGTCTTCTGGGGTGGCTCTAGACCCTAAGAATAACCTGGTGATT
TCCACAGAGGTGACCATGTCTGGGATGGAACCTCGTTTACAGCAAGTTTGTACCAGCAAAATAGGAC
TCGGACCAATTGAAGAAGACACTATTCTTGTATAGATCCAAATAATGCTGCAGTACTCCAGTCCAGTGG
AAAAAATCTGTTTTACTTGCCACATGGCTTGTAGTATAGATAAAGATGGGAATTATTGGGTACAGACGTG
GCTCTCCATCAGGTGTTCAAACCTGGATCCAAACAATAAAGAAGGCCCTGTATTAATCCTGGGAAGGAGCA
TGCAACCAGGCAGTGACCAGAATCACTTCTGTCAACCCACTGATGTGGCTGTGGTCCAGGCACTGGAGC
CATTTATGTATCAGATGGTTACTGCAACAGCAGGATTGTGCAGTTTTACCAAGTGGAAAGTTCATCACA
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CACCAAAGAAATTTGTGAGAGAGATTAAGCATTATCATTGGAAGAAATGTATTTGCAATTTTCATATATA
CCAGGCTTGTCTTTGCAGTGAATGGGAAGCCTCATTGTTGGGACCAAGAACCTGTACAAGGATTTGTGA
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TAATTTCTTTGCAAGCCGTAAGGGCTACAGTCGAAAAGGGTTTGACCGCTTAGCACTGAGGGCAGTGAC
CAAGAGAAAGAGGATGATGGAAGTGAATCAGAAGAGGAGTATTACGACCTCTGCCTGCGCTCGCACCTT
CCTCCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202074 representing NM_138821
 Red=Cloning site Green=Tags(s)

MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSNECLGTTTRPVVPIDSSDFALDIRMPGVTPKQ
 SDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSSTGSYWFCEGTCTDKANILYAWARNA
 PPTRLPKGVGFRVGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTRLPQPLIAGMYLMMSVDTVIP
 AGEKVVNSDISCHYKNYPMHVFA YRVHTHHLGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVGHVDPVDF
 GDLLAARCVFTGEGRTEATHIGGTSSDEMCLNYIMYYEAKHAVSFMTCTQNVAPDMFRTIPPEANIPIP
 VKSDMVMMEHHKETEYKDKIPLLQQPKREEEVLDQDFHMEALDWPVGYLLPGQVSGVALDPKNNLVI
 FHRGDHVDGNSFDSKFVYQQIGLGP IEEEDTILVIDPNNAAVLQSSGKNLFYLP HGLSIDKDGNYWTDV
 ALHQVFKLDPNNKEGPVILGRSMQPGSDQNHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFIT
 QWGEESSGSSPLPGQFTVPHSLALVPLLQGLCVADRENGRIQCCKTDTKEFVREIKHSSFGRNVAISYI
 PGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIIDIFKPVKRFHDMPHDIVASEDGTYYIGDAHTNTVWKFT
 LTEKLEHRSVKAGIEVQEIKEAEAVVETKMNKPTSSSELQKMQEKQKLIKEPGSGVPVLLITLLVIPV
 VVLLAIAIFIRWKKSRAGDSEHKLETSSGRVLRGRFRGKGGGLNLGNFFASRKGYSRKGFDRLSTEGSD
 QEKEDDGSESEEEYSAPLPALAPSSS

TRTRPLE - GFP Tag - V

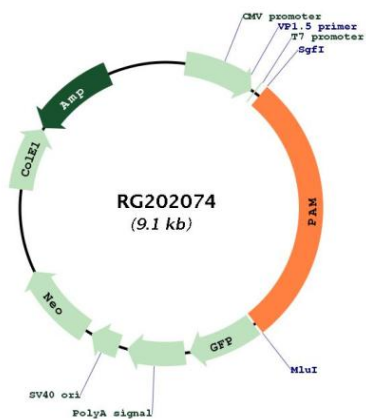
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_138821
ORF Size:	2598 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:	<ol style="list-style-type: none">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_138821.1 , NP_620176.1
RefSeq Size:	3636 bp
RefSeq ORF:	2601 bp
Locus ID:	5066
UniProt ID:	P19021
Cytogenetics:	5q21.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a multifunctional protein. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme includes two domains with distinct catalytic activities, a peptidylglycine alpha-hydroxylating monooxygenase (PHM) domain and a peptidyl-alpha-hydroxyglycine alpha-amidating lyase (PAL) domain. These catalytic domains work sequentially to catalyze the conversion of neuroendocrine peptides to active alpha-amidated products. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG202074