

Product datasheet for **MG226334**

Pag1 (NM_001195031) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pag1 (NM_001195031) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pag1
Synonyms: Cbp; F730007C19Rik; Pag
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226334 representing NM_001195031
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGGCAGATGCAGATGCAGATGGTCTGTGGGGAAGTCTGG
 CTGCCGTGGCCATGTTCTTCTCATCACCTTCTCGTCTCTGTGTTTCCACTTGCACAGAGAGAAGAA
 GCCACGGCAGCATAGCGGGGACCATGAGAACCTGATGAATGTGCCTTCCGACAAGGACATGTTTCAGCCAT
 TCGGCAACCAGCCTGACAACAGATGCACCTGGCTAGCAGCGAACAGAACGGGTGCTACCAATGGCGACA
 TTCTTTTACAAGACAGCAGCCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT
 CCTGGACTCCCAGGACAGCACAGGAAAGGCCAAGTGCCACCAGAGCCGGGAGCTGCCAGGATCCCAGCCT
 GAGAACGCGCTGGACGAGATTCTCACAGCCAGGGCTGCAGACACGGAACCTGGGGCCCGGAGTGGAGGGC
 CCTACGAGGTGCTCAAGGACAGCTCCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA
 GGAGATCAAGGAAGTGGCAGACAAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTTGAAGGAGCTT
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAACAAAAGTGCC
 GCCACAGCGCAACGCAGAGAGCATTCTGGGAACCTGCAGTGACCTGGACGAGGAAAGCCACCTCCTGT
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCAGGAGGGAGGAGACAGGCAGAGGAGCAAGCT
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTGTGCATACAAGTCTCGGGAAGAACCCGA
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCCTCAGTGAATAAGCCTGGCCAGTCCGGCACACAACC
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCCTCCCTCAGAGGTCGTATCT
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCTCCCAACAGCATCAGCACACTGCCCC
 CGGCAAGGAGACCCAGTGGAGGCCAGAGCCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA
 GAAGGTCCTCTGGAGACCAATGGCCACCATGTCCCAAGGAGAGTGACTACGAGAGCATTGGGGACTTG
 CAGCAATGCAGAGATGTCACCAGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226334 representing NM_001195031
 Red=Cloning site Green=Tags(s)

MGPAGSVLSSGQMVMQVWLWGSAAVAMFFLITFLVLLCSTCDREKKPRQHS GDHENLMNVPSDKDMF SH
 SATSLTDDALASSEQNGVLTNGDILSEDSTLTCMQHYEEVQTSASDLLDSQDSTGKAKCHQSRELPRIPP
 ENAVDEILTARAADTELPGVVEGPEYVLK DSSSQENMVEDCLYEYVKEIKEVADKGGGKSKST SALKEL
 QGAPMEGKADFAEYASVDRNKKCRHSANAESILGTCSDLDEESPPVPVKLLDENANLPQEGGGQAE EQA
 AEGTGGHSKRFSSLSYKSREEDPTLT EEEISAMYSSVNKPGQSAHKPGPCMKGPESACHSMKGLPQRSSS
 SCNDLYATVKDFEKT PNISISTLPPARRPSEEPEPDY EAIQTLNREDEKVPLE TNNGHHVPKESDYESI GDL
 QQCRDVTRL

TRTRPLE - GFP Tag - V

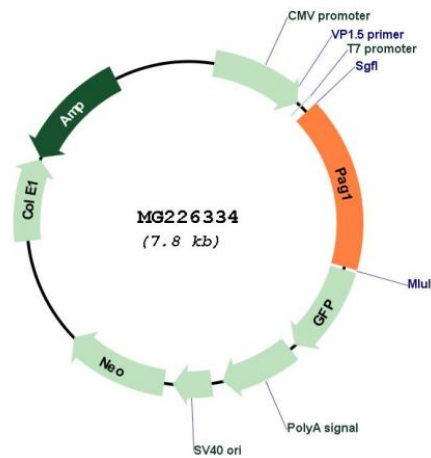
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195031

ORF Size:	1287 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_001195031.1 , NP_001181960.1
RefSeq Size:	8256 bp
RefSeq ORF:	1290 bp
Locus ID:	94212
UniProt ID:	Q3U1F9
Cytogenetics:	3 A1
Gene Summary:	Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Promotes CSK activation and recruitment to lipid rafts, which results in LCK inhibition. Inhibits immunological synapse formation by preventing dynamic arrangement of lipid raft proteins. May be involved in cell adhesion signaling.[UniProtKB/Swiss-Prot Function]