

Product datasheet for **MC212008**

Pag1 (NM_053182) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pag1 (NM_053182) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Pag1
 Synonyms: Cbp; F730007C19Rik; Pag
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC212008 representing NM_053182
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGGCAGATGCAGATGCAGATGGTCTGTGGGAAGTCTGG
 CTGCCGTGGCCATGTTCTTCTCATCACCTTCTCGTCTCTGTGTTCCACTTGCACAGAGAGAAGAA
 GCCACGGCAGCATAGCGGGGACCATGAGAACCTGATGAATGTGCCTTCCGACAAGGACATGTTCCAGCCAT
 TCGGCAACCAGCCTGACAACAGATGCACTGGCTAGCAGCGAACAGAACCGGGGTGCTCACCAATGGCGACA
 TTCTTTTCAAGAAGACAGCACGCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT
 CCTGGACTCCCAGGACAGCACAGGAAAGGCCAAGTGCCACCAGAGCCGGGAGCTGCCAGGATCCCGCCT
 GAGAACGCCGTGGACGAGATTCTCACAGCCAGGGCTGCAGACACGGAAGTGGGGCCCGGAGTGGAGGGGC
 CCTACGAGGTGCTCAAGGACAGCTCCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA
 GGAGATCAAGGAAGTGGCAGACAAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTTGAAGGAGCTT
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAACAAAAGTGCC
 GCCACAGCGCGAACCGAGAGAGCATTCTGGGAAGTTCAGTGCAGTGGACGAGGAAAGCCACCTCCTGT
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCCAGGAGGGAGGAGCAGGCAGAGGAGCAAGCT
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTTGTCATAAAGTCTCGGGAAGAAGACCCGA
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCTCAGTGAATAAGCCTGGCCAGTCGGCACACAAACC
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCCTCCCTCAGAGGTCGTCATCT
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCCCAACAGCATCAGCACACTGCCCC
 CGGCAAGGAGACCCAGTGAAGGAGCCAGAGCCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA
 GAAGTCCCTCTGGAGACCAATGGCCACCATGTCCCAAGGAGAGTACTACGAGAGCATTGGGGACTTG
 CAGCAATGCAGAGATGTCACCAGGCTC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_053182
Insert Size:	1290 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_053182.5 , NP_444412.2
RefSeq Size:	8197 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]

Transcript Variant: This variant (B) differs in the 5' UTR compared to variant A. Both variants A and B encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.