

Product datasheet for **MC212008**

Pag1 (NM_053182) Mouse Untagged Clone

Product data:

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|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Pag1 (NM_053182) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pag1 |
| Synonyms: | Cbp; F730007C19Rik; Pag |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC212008 representing NM_053182
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGCAGATGCAGATGCAGATGGTCCTGTGGGAAGTCTGG
 CTGCCGTGGCCATGTTCTTCCTCATCACCTTCCTCGTCCTCCTGTGTCCACTTGCACAGAGAGAAGAA
 GCCACGGCAGCATAGCGGGGACCATGAGAACCTGATGAATGTGCCTTCCGACAAGGACATGTTACGCCAT
 TCGGAACCGAGCTGACAACAGATGCACTGGTAGCAGCGAACAGAACGGGGTGCTACCAATGGCGACA
 TTCTTTTCAAGACAGCAGCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT
 CCTGGACTCCCAGGACAGCACAGGAAAGGCCAAGTGCCACCAGAGCCGGGAGCTGCCAGGATCCCGCT
 GAGAACCGCTGGACGAGATTCTACAGCCAGGGCTGCAGACACGGAAGTGGGGCCGGAGTGAGGGGC
 CCTACGAGGTGCTCAAGGACAGCTCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA
 GGAGATCAAGGAAGTGGCAGACAAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTTGAAGGAGCTT
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAACAAAAAGTGCC
 GCCACAGCGCGAACGCAGAGAGCATTCTGGGAAGTTCAGTGACCTGGACGAGGAAGGCCACCTCTGT
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCAGGAGGGAGGAGGACAGGCAGAGGAGCAAGCT
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTTGTCATACAAGTCTCGGGAAGAAGACCCGA
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCCTCAGTGAATAAGCCTGGCCAGTCCGCACACAAACC
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCTCCCTCAGAGGTCGTCATCT
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCCCAACAGCATCAGCACACTGCCCC
 CGGCAAGGAGACCCAGTGAGGAGCCAGAGCCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA
 GAAGGTCCTCTGGAGACCAATGGCCACCATGTCCCCAAGGAGAGTGACTACGAGAGCATTGGGGACTTG
 CAGCAATGCAGAGATGTACACAGGCTC**TA**G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_053182

Insert Size: 1290 bp

OTI Disclaimer: 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.

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](#)

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).

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|-------------------------------|--|
| 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_053182.5, NP_444412.2</u> |
| RefSeq Size: | 8197 bp |
| RefSeq ORF: | 1290 bp |
| Locus ID: | 94212 |
| UniProt ID: | <u>Q3U1F9</u> |
| Cytogenetics: | 3 A1 |
| Gene Summary: | <p>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]</p> <p>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.</p> |