

## Product datasheet for **MC212009**

### **Pag1 (NM\_001195031) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pag1 (NM_001195031) 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:** >MC212009 representing NM\_001195031  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGGCAGATGCAGATGCAGATGGTCTGTGGGAAGTCTGG  
 CTGCCGTGGCCATGTTCTTCTCATCACCTTCTCGTCCTCTGTGTCCACTTGCACAGAGAGAAGAA  
 GCCACGGCAGCATAGCGGGGACCATGAGAACTGATGAATGTGCCTTCCGACAAGGACATGTTCCAGCCAT  
 TCGGCAACCAGCCTGACAACAGATGCACTGGTAGCAGCGAACAGAACGGGGTGCTACCAATGGCGACA  
 TTCTTTTCAAGACAGCAGCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT  
 CCTGGACTCCCAGGACAGCACAGAAAGGCCAAGTCCACCAGAGCCGGGAGCTGCCAGGATCCCGCT  
 GAGAACCGCTGGACGAGATTCTCACAGCCAGGGCTGCAGACACGGAACGGGGCCGGAGTGGAGGGGC  
 CCTACGAGGTGCTCAAGGACAGCTCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA  
 GGAGATCAAGGAAGTGGCAGACAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTGAAGGAGCTT  
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAACAAAAGTGCC  
 GCCACAGCGCAACGCAGAGAGCATTCTGGAACTTGCAGTGACCTGGACAGGAAAGCCACCTCTGT  
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCCAGGAGGGAGGAGGACAGGCAGAGGAGCAAGCT  
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTTGTCATACAAGTCTCGGGAAGAAGACCCGA  
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCTCAGTGAATAAGCCTGGCCAGTCCGGCACACAAACC  
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCTCCCTCAGAGGTCGTCATCT  
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCTCCCAACAGCATCAGCACACTGCCCC  
 CGGCAAGGAGACCCAGTGAAGGAGCCAGGCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA  
 GAAGTCCCTCTGGAGACCAATGGCCACCATGTCCCAAGGAGAGTACTACGAGAGCATTGGGGACTTG  
 CAGCAATGCAGAGATGTACCAGGCTC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001195031

**Insert Size:** 1290 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\_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]  
Transcript Variant: This variant (A) represents the longer transcript. 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.