

Product datasheet for **MR226333**

Pag1 (NM_053182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pag1 (NM_053182) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226333 representing NM_053182
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGGCAGATGCAGATGCAGATGGTCTGTGGGGAAGTCTGG
 CTGCCGTGGCCATGTTCTTCTCATCACCTTCTCGTCTCCTGTGTCCACTTGCACAGAGAGAAGAA
 GCCACGGCAGCATAGCGGGGACCATGAGAACTGATGAATGTGCCTTCCGACAAGGACATGTTCCAGCCAT
 TCGGAACCGCCTGACAACAGATGCACTGGCTAGCAGCGAACAGAACGGGGTGTCTACCAATGGCGACA
 TTCTTTCAGAAGACAGCACGCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT
 CCTGGACTCCCAGGACAGCACAGGAAAGGCCAAGTGCCACCAGAGCCGGGAGCTGCCAGGATCCCGCT
 GAGAACCGCTGGACGAGATTCTCACAGCCAGGGCTGCAGACACGGAAGTGGGGCCGGAGTGGAGGGGC
 CCTACGAGGTGCTCAAGGACAGTCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA
 GGAGATCAAGGAAGTGGCAGACAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTGAAGGAGCTT
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAACAAAAAGTGCC
 GCCACAGCGCAACGCAGAGAGCATTCTGGAACTTGCAGTGACCTGGACGAGGAAAGCCCACTCTGT
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCAGGAGGGAGGAGGACAGGCAGAGGAGCAAGCT
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTTGTACATAAGTCTCGGGAAGAAGACCCGA
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCTCAGTGAATAAGCCTGGCCAGTCCGGCACACAAACC
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCTCCCTCAGAGGTCGTCATCT
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCCCAACAGCATCAGCACACTGCCCC
 CGGCAAGGAGACCCAGTGAAGGAGCCAGAGCCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA
 GAAGTCCCTCTGGAGACCAATGGCCACCATGTCCCAAGGAGAGTGACTACGAGAGCATTGGGGACTTG
 CAGCAATGCAGAGATGTACCAGGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226333 representing NM_053182
 Red=Cloning site Green=Tags(s)

MGPAGSVLSSGQMQMVMVWGLAAVAMFFLITFLVLLCSTCDREKKPRQHSGDHENLMNVPSDKDMFSH
 SATSLTTDALASSEQNGVLNNGDILSEDSTLTMCQHYYEEVQTSASDLLDSQDSTGKAKCHQSRELPRIPP
 ENAVDEILTARAADTELPGVVEGPEYVLKSSSQENMVEDCLYETVKEIKEVADKGGGKSKSTSALKEL
 QGAPMEGKADFAEYASVDRNKKCRHSANAESILGTCSDLDEESPPPPVPVKLLDENANLPQEGGGQAEQEA
 AEGTGGHSKRFSSL SYKSREEDPTL TEEEISAMYSSVNKPGQSAHKPGPCMKGPESACHSMKGLPQRSSS
 SCNDLYATVKDFEKTNPNSISTLPPARRPSEEPDYEAIQTLNREDEKVPLETNGHHVPKESDYESIGDL
 QQCRDVTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_053182

ORF Size: 1287 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](#)

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).

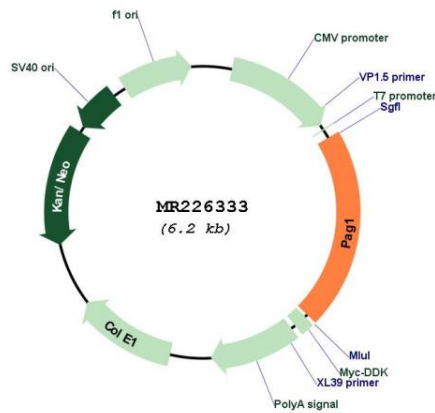
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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
 MW: 46.5 kDa

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]

Product images:



Circular map for MR226333