

## Product datasheet for **MG226333**

### Pag1 (NM\_053182) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pag1 (NM\_053182) 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:** >MG226333 representing NM\_053182  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCCCTGCAGGAAGCGTACTGAGCAGTGGGCAGATGCAGATGCAGATGGTCTGTGGGGAAGTCTGG  
 CTGCCGTGGCCATGTTCTTCTCATCACCTTCTCGTCTCTGTGTTTCCACTTGCACAGAGAGAAGAA  
 GCCACGGCAGCATAGCGGGGACCATGAGAACCTGATGAATGTGCCTTCCGACAAGGACATGTTTACGCCAT  
 TCGGCAACCAGCCTGACAACAGATGCACCTGGCTAGCAGCGAACAGAACGGGTGCTACCAATGGCGACA  
 TTCTTTTACAAGACAGCAGCTGACCTGCATGCAGCACTATGAGGAAGTCCAGACCTCGGCTTCCGATCT  
 CCTGGACTCCCAGGACAGCACAGGAAAGGCCAAGTGCCACCAGAGCCGGGAGCTGCCAGGATCCCAGCT  
 GAGAACGCGGTGGACGAGATTCTCACAGCCAGGGCTGCAGACACGGAACCTGGGGCCCGGAGTGGAGGGC  
 CCTACGAGGTGCTCAAGGACAGCTCCTCCAGGAGAACATGGTGGAGGACTGTCTGTATGAAACAGTGAA  
 GGAGATCAAGGAAGTGGCAGACAAGGCCAGGGTGGCAAGTCCAAGTCCACTTCTGCCTTGAAGGAGCTT  
 CAGGGGGCTCCCATGGAGGGCAAGGCCGACTTTGCTGAATATGCCTCTGTGGACAGAAAACAAAAGTGC  
 GCCACAGCGCAACGCAGAGAGCATTCTGGGAACCTGCAGTGACCTGGACGAGGAAAGCCACCTCCTGT  
 CCCGGTTAAGCTTCTGGATGAGAATGCCAACCTTCCCAGGAGGGAGGAGACAGGCAGAGGAGCAAGT  
 GCAGAAGGGACCGGTGGACACAGCAAGAGATTTAGTTCCTGTGCATACAAGTCTCGGGAAGAACCCGA  
 CTCTTACAGAAGAGGAGATCTCAGCAATGTATTCCTCAGTGAATAAGCCTGGCCAGTCCGGCACACAACC  
 TGGACCATGTATGAAAGGGCCAGAATCTGCCTGCCACTCCATGAAGGGCCTCCCTCAGAGGTCGTATCT  
 TCCTGCAATGACCTCTATGCCACTGTGAAAGACTTTGAGAAAACCTCCCAACAGCATCAGCACACTGCCCC  
 CGGCAAGGAGACCCAGTGGAGGCCAGAGCCTGACTATGAAGCCATACAGACTCTAAACAGAGAGGATGA  
 GAAGGTCCCTCTGGAGACCAATGGCCACCATGTCCCAAGGAGAGTGACTACGAGAGCATTGGGGACTTG  
 CAGCAATGCAGAGATGTCACCAGGCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG226333 representing NM\_053182  
 Red=Cloning site Green=Tags(s)

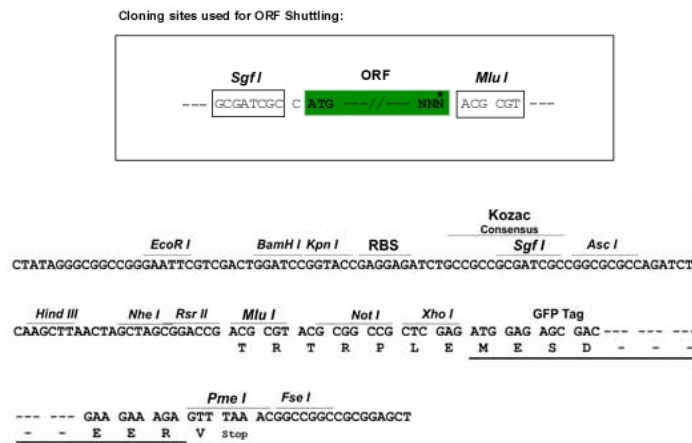
MGPAGSVLSSGQMOMQMVWLSLAAMFFLITFLVLLCSTCDREKKPRQHSGDHENLMNVPSDKDMFSH  
 SATSLTTDALASSEQNGVLTNGDILSEDSTLTCMQHYEEVQTSASDLLDSQDSTGKAKCHQSRELPRIPP  
 ENAVDEILTARAADTELGPVVEGPIYEVLDKSSSQENMVEDCLYEYVKEIKEVADKGGGKSKSTALKEL  
 QGAPMEGKADFAEYASVDRNKKCRHSANAEISILGTCSDLDEESPPVPVKLLDENANLPQEGGGQAEQEA  
 AEGTGGHSKRFSSLSYKREEDPTLTETEEISAMYSSVKNKPGQSAHKPGPCMKGPESACHSMKGLPQRSSS  
 SCNDLYATVKDFEKTNPISITLPPARRPSEEPEPDYEAIQTLNREDEKVPLETNHHVPEKESDYESIGDL  
 QQCRDVTRL

TRTRPLE - GFP Tag - V

Chromatograms: [https://cdn.origene.com/chromatograms/ja2807\\_f12.zip](https://cdn.origene.com/chromatograms/ja2807_f12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_053182

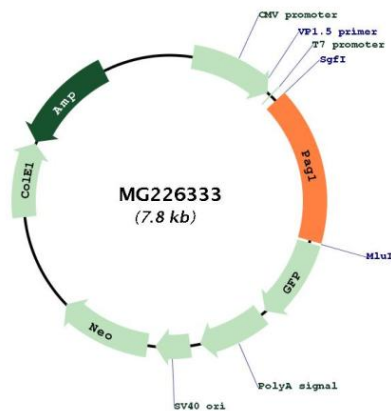
ORF Size: 1287 bp

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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_053182.5, NP_444412.2</u>
<b>RefSeq Size:</b>	8197 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	94212
<b>UniProt ID:</b>	<u>Q3U1F9</u>
<b>Cytogenetics:</b>	3 A1
<b>Gene Summary:</b>	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 MG226333