

## Product datasheet for **MC228920**

### **Cass4 (NM\_001276423) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cass4 (NM_001276423) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cass4
Synonyms:	F730031O20Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228920 representing NM\_001276423  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGGCCACCAGCATCAGAGAGGGTGCGCCAAGACCTGTTGGCCAGGGCACTCTACGACAACCATG  
 CTGATTGCTCCGACGAGCTTGCTTTCTCCAGAGGGGACATCCTGACCATCGTGGAACAAAATGTGCCAGA  
 AAGCGAGGGCTGGTGGAGGTGTCTGCTCCACGGGAGGCAAGGCCTGGCTCCAGCCAACCGCTCCAAGTC  
 CTCAGAGAGACCCTGCAGACAGACCCTGTCCCCTGCTCCCGAGAGGCCAGACACAGATCTCACCAGCT  
 CCGGGGCGCCTTACCAGGTGCAGGACTTGATCTCCCCGCCACCCAGGGACCTGTGTATGAACCAATGAG  
 GAGCTGGTGGAGGGGCCGTACCAGCGACTGCCAAGTCTACGAATGCCTGAGTCACCTTCCAGTGCC  
 AGGATCATCTGTAAAAGACGCTGAGCTTCCCAAGCAGGCCCTCTGTGCTTCCAGACCGACGAGGG  
 CCTCGTTGCCGACTTCTTCCAGGTGTATGACGTGCCTGTCAGAGGCAGGGCTTCTCAACCCCTTGA  
 GAGGCTGGAGAAGCAGCAGTTCTATGACATACCCACCAGCTCCAGAAGGCTCTGCTCCACTCCTCCACC  
 AGCCAGGGACGGGATGTTACATTGGCACCGACAATGGCCTTCAGACAAGGTGGTGGCTATAACCCGTTAT  
 CCAGCCCTCAGAAAGTCAAAACGGATTATGACACTCCGGTGTGCTGGAAAAGGCCGATGTCAGAAATGT  
 GTCTATGACCAGCTTACCAAAGACTCAGGTTCCAGAGCCATTCCAGGCTCCTCTGCTGTCCACTGGA  
 GCTGTGGCCCTCTCCCCACAGCTGGGAAACTGTGCAGAGAAAAACAGCCTCCAGAAGAACCTACCT  
 ATGCCTTCCCAACGTCCAGGGACCCACTGCCCTCTGATGCAGGTGGCAGCTACAAGTCCCTTCCAGGTT  
 TCTTATCCCAGAGTGGAGCAACAGAACCCATGCCTAACATTTATGACACCCCTAAAGCCATGCAGGGT  
 GTGTCTCATAACGCCCTAAAGCCATGCAGGGTGTGTCTCTGGCTGAAAAGGAGCTGGAGAGAGCCAGAG  
 AGGCTCCAGAAAATCCCCCTGGATCTCCGGACAGACAAGTTTCTGTCTCCTGACTCGGACCGATTATC  
 TGTGGCCAGCTCAGACAGCAGGGCTAGTGTGGTGTCTTCCCTGCTCCTCCATATCCATGGACTCCTCCT  
 GGCTCCTCCTCAGAGGACTCCGTCAAGGAGCTATGGATGGACGTGGACTTTGCAAAGGAGACAGCAGTGT  
 CTCTGCAACACAAAGTGGCCAGCTCGGGCGGGCCTGCTGCTCTTTGTAAGCAGGACTTGGAGGTTCAA  
 AGACTCCTTGAAACCAACATCCACAGAATCCGCAGGGCCGCTGACCACGTAGAGGAATCTGTAAGAGAA  
 TTTCTGGATTTTGCCCAAGGGTGGTGGGACCGCTTGAATCTCACAGACAGCTACCTCAGGCTAGAA  
 TTAGAGATCAGCTCCAGACAATCTTAGCTCCTACCAGACTGCTGGATGCCAAGGGAAGCTTGGACCG  
 CTGCAATTGGTCCCTGGAAGTCTGTGACAGACAAAAGTCCAAAACAGCCTGGATGACCTGGAGAGGTTT  
 GTCGCCACTGCACGAATAGTTCCAGAAGACGTCAAGAGGTTTACCTCCATCGTCATTGCCAATGGGAAGC  
 TCCTTTTTAAACAGAAGTGTGAGAAAGGAGAGATGGACTTGAAGTGTGAGAGATGCATCCGGCCTCCCCA  
 AAGAGAAACTGAGTCCTACCAAGAGAGCAGCCCTTCGACAGGCAACCGCAACTGAACACTCCTTTGAA  
 CTAGCAAGGAAAAACAGAGTGAATGTCTGTTGGCAGAGTCTCCCCCTTACCTCTCCATCTCCCAGTG  
 GGCAAAACACCGAGAGGAAGATCCACCTGTCTAAGCATAGCAGACTCTATTTCCGAGCACTTCAAAGC  
 CATCAGTGTCTTTGCAAGCAGCTCAGCAACGGCCAGCCCCCGAGGTCTTATCACTCAGAGCAAGCTA  
 GTCATCACAGTTGGACAGAAGCTGGTGGACACGCTGTGCAGTGAACCCAGGAGAAAGATGAACGCAATG  
 AGATCCTGTGTGGCAGCAGTCACCTCTGCGGGCTGCTCAAGGACCTGGCGCTGGCCACAAAAGTGCAGT  
 GATCCAGTACCCGAGCCCAAGTGCCTGAGCCTCCTCCAGTCAGAGGTGGAGAGGCTAGAGCACCCTCT  
 CGGAAATTCAGAGACACGTTGGAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276423  
**Insert Size:** 2337 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001276423.1, NP_001263352.1</u>
<b>RefSeq Size:</b>	3627 bp
<b>RefSeq ORF:</b>	2337 bp
<b>Locus ID:</b>	320664
<b>UniProt ID:</b>	<u>Q08EC4</u>
<b>Cytogenetics:</b>	2 H3
<b>Gene Summary:</b>	<p>Docking protein that plays a role in tyrosine kinase-based signaling related to cell adhesion and cell spreading. Regulates PTK2/FAK1 activity, focal adhesion integrity, and cell spreading (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 3' coding region compared to variant 2. It encodes isoform 4, which is shorter than isoform 2.</p>