

## Product datasheet for MC209789

### Dusp13 (NM\_013849) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp13 (NM_013849) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dusp13
Synonyms:	DUSP13A; DUSP13B; Gm1203; LMW-D; LMW-DSP6; MDSP; TMD; TMDP; TS-D; TS-DSP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209789 representing NM_013849 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGCAGGCTGGGCAGAGACCACTGCAGTCTGCCCTTGGCATTACCTGCCAAAGTCTCTTCCAGACAC  
 CTCGATGTCCTTCTGTGAGAACGCTAGCCCCACTTGGTCTGTGCTCCCTAAGAGAAGAGGGGAGACAGAG  
 AGGGAACAGCAGAGGAGACCAGGAGAAATGTGTTCTGAGGTTACAGCTAAAGAGAATGGACTCGCTACAG  
 AAGCAGGAACTTCGAGGCCAAAGATTCATGGGGCAGTCCAGGTGTCCCCTACCAGCCACCCACTGG  
 CCTCTCTGCAGCGATTGCTGTGGGTCCGTCGACTGCCCACTGACCCACATCAATGAGGTCTGGCCCA  
 CCTTTTCTGGGAGATGCGTATGCTGCCAGAGACAAGGGTCGTCTAATCCAGCTGGGCATTACCCATGTT  
 GTGAATGTGGCTGCGGGCAAGTTCCAGGTGGACACAGGTGCCAAGTTCTACCGTGGAAACCTCTGGAGT  
 ACTATGGCATTGAGGCTGATGACAACCCCTTCTTTGACCTCAGCGTCCACTTTCTGCCTGTTGCTCGTTA  
 CATCAGAGATGCCCTCAATATCCCCGAAGCCGAGTGTGGTCCACTGCGCTATGGGGTGAGTCGCTCT  
 GCCACAATTGTCTTGGCCTTCTCATGATCTTCGAGAACATGACACTGGTAGATGCCATCCAGACGGTGC  
 AGGCCACCGAGATATCTGTCCCACTCAGGCTTCTCCGACAGCTCCAGGTTCTGGACAACAGGCTGAG  
 GCGGGAACAGGAAGACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_013849
Insert Size:	792 bp


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<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>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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_013849.3, NP_038877.2</u>
<b>RefSeq Size:</b>	1071 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	27389
<b>UniProt ID:</b>	<u>Q9QYJ7</u>
<b>Cytogenetics:</b>	14 A3
<b>Gene Summary:</b>	<p>Members of the protein-tyrosine phosphatase superfamily cooperate with protein kinases to regulate cell proliferation and differentiation. This superfamily is separated into two families based on the substrate that is dephosphorylated. One family, the dual specificity phosphatases (DSPs) acts on both phosphotyrosine and phosphoserine/threonine residues. This gene encodes different but related DSP proteins through the use of non-overlapping open reading frames, alternate splicing, and presumed different transcription promoters. Expression of the distinct proteins from this gene has been found to be tissue specific and the proteins may be involved in postnatal development of specific tissues. A protein encoded by the upstream ORF was found in skeletal muscle, whereas the encoded protein from the downstream ORF was found only in testis. In humans, a similar pattern of expression was found. Multiple alternatively spliced transcript variants were described, but the full-length sequence of only some were determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks several 5' exons and includes an alternate 5' exon, compared to variant 1. The resulting protein, isoform 2, (also called TMDP) is encoded from the downstream ORF of this gene and is found only in testis.</p>