

## Product datasheet for **SC122843**

### DUSP13 (NM\_016364) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DUSP13 (NM\_016364) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DUSP13  
**Synonyms:** BEDP; DUSP13A; DUSP13B; MDSP; SKRP4; TMDP  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_016364 edited  
GGGGATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTCTTGCAGCCGTGTGGA  
CGAAGTTTGGCCCAACCTTTTCATAGGAGATGCAAACAGCATCAAGTGTGCGGAGACAGG  
CGGCTGAAAGCCCGCAGCACGAACTGCCCGTCAGAGAAGTGCACAGCCTGGGCCAGATA  
TCCCACAGGATGGACTCACTGCAGAAGCAGGACCTCCGGAGGCCAAGATCCATGGGGCA  
GTCCAGGCATCTCCCTACCAGCCGCCACATTGGCTTCGCTGCAGCGCTTGTGTGGGTC  
CGTCAGGCTGCCACACTGAACCATATCGATGAGGTCTGGCCAGCCTTCTCCTGGGAGAT  
GCGTACGCAGCCCGGACAAGAGCAAGCTGATCCAGCTGGGAATCACCCACGTTGTGAAT  
GCCGCTGCAGGCAAGTTCAGGTGGACACAGGTGCCAAATCTACCGTGAATGTCCCTG  
GAGTACTATGGCATCGAGGCGGATGACAACCCCTTCTTCGACCTCAGTGTCTACTTTCTG  
CCTGTTGCTCGATACATCCGAGCTGCCCTCAGTGTCCCAAGGCCGCGTGTGTACAC  
TGTGCCATGGGGTAAGCCGCTCTGCCACACTTGTCTGGCCTTCTCATGATCTATGAG  
AACATGACGCTGGTAGAGGCCATCCAGACGGTGCAGGCCACCGCAATATCTGCCCTAAC  
TCAGGCTTCTCCGGCAGCTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGG  
TTCTGATCTGGCAGGCAGCCAGGATCCCTGACCCTTGGCCCAACCCACCAGCCTGGCCC  
TGGGAACAGCAGGCTCTGCTGTTTCTAGTGACCCTGAGATGTAACAGCAAGTGGGGCT  
GAGGCAGAGGCAGGATAGCTGGTGGTGACCTTTAGCGGGTGGATTTCCTGACCCAA  
TTCAGAGATTCTTTATGCAAAAAGTGAGTTCAGTCCATCTCTATAATAAAATATTCATCGT  
CGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_016364 unedited<br>GGCGTTCCGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCCATTACGGCCGGG<br>GATCCTGGAGCTGGAGGAGCTCCTGCGGGCAGGGAAGTCTTCTTGACCCGTGTGGACGA<br>AGTTTGGCCCAACCTTTTCATAGGAGATGCAAACAGCATCAAGTGTGCGGAGACAGGCGG<br>CTGAAAGCCGGCAGCAGCAACTGCCCGTCAGAGAAGTGCACAGCCTGGGCCAGATACTCC<br>CACAGGATGGACTCACTGCAGAAGCAGGACCTCCGGAGGCCAAGATCCATGGGGCAGTC<br>CAGGCATCTCCCTACCAGCCGCCACATTGGCTTCGCTGCAGCGCTTGCTGTGGTCCGT<br>CAGGCTGCCACACTGAACCATATCGATGAGGTCTGGCCAGCCTTCTCTGGGAGATGCG<br>TACGCAGCCCGGACAAGAGCAAGCTGATCCAGCTGGGAATCACCCACGTTGTGAATGCC<br>GCTGCAGGCAAGTTCAGGTGGACACAGGTGCCAAATTCTACCGTGAATGTCCCTGGAG<br>TACTATGGCATCGAGGCGGATGACAACCCCTTCTTCGACCTCAGTGTCTACTTTCTGCCT<br>GTTGCTCGATACATCCGAGCTGCCCTCAGTGTTCCTCAAGCCGCGTGTGGTACTACTGT<br>GCCATGGGGTAAGCCGCTCTGCCACACTTGTCTGGCCTTCTCATGATCTATGAGGAC<br>ATGACGCTGGTAGAGCCATCCAGACGGTGCAGGCCACCACCAATATCTGCCCTACTCA<br>GGCTTCTCCCGCAGCTCCAGGTTTCTGGACAACCGACTGGGGCGGAAGACGGGGCCGTT<br>CTGATCTGGGCAGCACCCAGGATCCCTGACCCTGGCCAACCCCAACCTGGCCCTGGG<br>AACAAACAGC |
| <b>Restriction Sites:</b>           | Please inquire   |
| <b>ACCN:</b>                        | NM_016364  |
| <b>Insert Size:</b>                 | 1053 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>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>                      | <a href="#">NM_016364.3</a> , <a href="#">NP_057448.3</a>  |
| <b>RefSeq Size:</b>                 | 923 bp   |
| <b>RefSeq ORF:</b>                  | 597 bp   |
| <b>Locus ID:</b>                    | 51207  |
| <b>UniProt ID:</b>                  | <a href="#">Q9UII6</a>   |
| <b>Cytogenetics:</b>                | 10q22.2  |
| <b>Protein Families:</b>            | Druggable Genome, Phosphatase  |

**Gene Summary:**

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 mouse, 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]

Transcript Variant: This variant (6) lacks several 5' exons and includes an alternate 5' exon, compared to variant 1. The resulting protein, isoform 6, (also called TMDP) is encoded by the downstream ORF of this gene and is found only in testis. Both variants 6 and 8 encode the same isoform (6).