

## Product datasheet for SC301206

### DUSP13 (NM\_001007273) Human Untagged Clone

#### Product data:

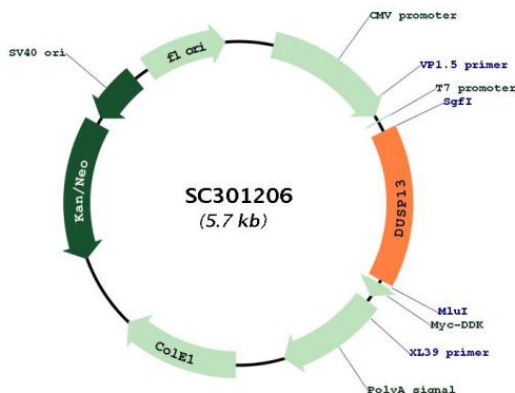
Product Type:	Expression Plasmids
Product Name:	DUSP13 (NM_001007273) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP13
Synonyms:	BEDP; DUSP13A; DUSP13B; MDSP; SKRP4; TMDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301206 representing NM_001007273. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGGGCTCTGCCACTTTGCCACCCTGGCACTGATCCTGCTGGTCTGCTGGAGGCTCTGGCCAGGCG
GACACACAGAAGATGGTGAAGCCAGCGTGGGGTCGGCCCTAGAGCCTGCTACTCCATCTGGCTCCTC
CTGGCGCTACACCCCTCTCAGCCACTGTCTTCAGTCTCCACAGAAACAGCATCAAGTGTGCGGAGAC
AGGCGGCTGAAAGCCAGCAGCACGAACTGCCCGTCAGAGAAGTGCACAGCCTGGCCAGATACTCCAC
AGGATGGACTCACTGCAGAAGCAGGACCTCCGGAGGCCAAGATCCATGGGGCAGTCCAGGCATCTCCC
TACCAGCCGCCACATTGGCTTCGCTGCAGCGTTGCTGTGGTCCGTCAGGCTGCCACACTGAACCAT
ATCGATGAGGTCTGGCCAGCCTTTCCTGGGAGATGCGTACGCAGCCCGGACAAGAGCAAGCTGATC
CAGCTGGGAATCACCCACGTTGTGAATGCCGCTGCAGGCAAGTTCAGGTGGACACAGGTGCCAAATTC
TACCGTGGAAATGTCCCTGGAGTACTATGGCATCGAGGCGGACGACAACCCCTTCTTCGACCTCAGTGTC
TACTTTCTGCCTGTTGCTCGATACATCCGAGCTGCCCTCAGTGTTCCTCAAGCCGCGTGTGGTACAC
TGTGCCATGGGGTAAGCCGCTCTGCCACACTTGTCTGGCTTCTCATGATCTGTGAGAACATGACG
CTGGTAGAGGCCATCCAGACGGTGCAGGCCACCCTCAATATCTGCCCTAACTCAGGCTTCTCCGGCAG
CTCCAGGTTCTGGACAACCGACTGGGGCGGGAGACGGGGCGGTTCTGA
ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001007273

**Insert Size:** 876 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001007273.1](#)

**RefSeq Size:** 1362 bp

**RefSeq ORF:** 876 bp

<b>Locus ID:</b>	51207
<b>UniProt ID:</b>	<a href="#">Q6B811</a>
<b>Cytogenetics:</b>	10q22.2
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>MW:</b>	32.4 kDa
<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 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]</p> <p>Transcript Variant: This variant (3) lacks several internal exons, compared to variant 1, resulting in a distinct protein (isoform 3, also called TMDP-L1), compared to isoform 1. Efforts to detect expression of isoform 3 were unsuccessful. Both variants 3 and 7 encode the same isoform (3).</p>