DUSP13 cDNA Clone – Dual Specificity Phosphatase 13 (Human)

PRODUCT OVERVIEW

Product Name	DUSP13, cDNA Clone
Full Product Name	DUSP13 cDNA Clone
Product Gene Name	DUSP13 cdna clone
Sequence	atggactcac tgcagaagca ggacctccgg aggcccaaga tccatggggc agtccaggca tctccctacc agccgcccac attggcttcg ctgcagcgct tgctgtgggt ccgtcaggct gccacactga accatatcga tgaggtctgg cccagcctct tcctgggaga tgcgtacgca gcccgggaca agagcaagct gatccagctg ggaatcaccc acgttgtgaa tgccgctgca ggcaagttcc aggtggacac aggtgccaaa ttctaccgtg gaatgtccct ggagtactat ggcatcgagg cggatgacaa ccccttcttc gacctcagtg tctactttct gcctgttgct cgatacatcc gagctgccct cagtgttccc caaggccgcg tgctggtaca ctgtgccatg ggggtaagcc gctctgccac acttgtcctg gccttcctca tgatctatga gaacatgacg ctggtagagg ccatccagac ggtgcaggcc caccgcaata tctgccctaa ctcaggcttc ctccggcagc tccaggttct ggacaaccga ctggggcggg agacggggcg gttctga
Molecular Weight	17,283 Da
OMIM	613191
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DUSP13 cdna clone	MBS1278696 is a cDNA clone targeting DUSP13.
Other Notes	Small volumes of DUSP13 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP13. It may not necessarily be applicable to this product.

NCBI GI #	14602534
NCBI GeneID	51207
NCBI Accession #	BC009778
UniProt Secondary Accession #	Q96J67
UniProt Related Accession #	Q6B8I1; Q9UII6
NCBI Official Full Name	Homo sapiens dual specificity phosphatase 13, mRNA
NCBI Official Synonym Full Names	dual specificity phosphatase 13
NCBI Official Symbol	DUSP13
NCBI Official Synonym Symbols	BEDP; MDSP; TMDP; SKRP4; DUSP13A; DUSP13B
UniProt Protein Name	Dual specificity protein phosphatase 13 isoform A
UniProt Synonym Protein Names	Branching-enzyme interacting DSP; Muscle-restricted DSP; MDSP
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP13

UniProt Synonym Gene Names	BEDP; DUSP13A; MDSP; DUSP13A; MDSP
UniProt Entry Name	DS13A_HUMAN
NCBI Protein Information	dual specificity protein phosphatase 13
NCBI Summary for DUSP13	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]
UniProt Comments for DUSP13	DUSP13 iso5: May be involved in the regulation of meiosis and/or differentiation of testicular germ cells during spermatogenesis. Exhibits intrinsic phosphatase activity towards both phospho- seryl/threonyl and -tyrosyl residues of myelin basic protein, with similar specific activities in vitro. Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. 5 isoforms of the human protein are produced by alternative promoter. Protein type: EC 3.1.3.48; Cell cycle regulation; EC 3.1.3.16; Protein phosphatase, dual-specificity; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10q22.2 Molecular Function: phosphoric monoester hydrolase activity; protein binding Biological Process: dephosphorylation; meiosis; protein amino acid dephosphorylation; spermatogenesis
Research Articles on DUSP13	**1.** data suggest an important role for DUSP13B in protection from external stress during spermatogenesis
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