

Product datasheet for **RG206760**

DUSP10 (NM_007207) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP10 (NM_007207) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUSP10
Synonyms:	MKP-5; MKP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206760 representing NM_007207
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCCGTCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCGTCGACCTCAGGATCTCA
 ACCTTTGTTTAGACTCTAGTTACCTTGGCTCTGCCAACCCAGGCAGTAACAGCCACCCTCTGTCATCGC
 CACCACCGTTGTGTCCCTCAAGGCTGCGAATCTGACGTATATGCCCTCATCCAGCGGCTCTGCCCGCTCG
 CTGAATTGTGGATGCAGCAGTGCCAGCTGCTGCACTGTGGCAACCTACGACAAGGACAATCAGGCCCAAA
 CCCAAGCCATTGCCGCTGGCACCACCACCCTGCCATCGGAACCTCTACCACCTGCCCTGCTAACCCAGAT
 GGTCAACAATAATGAGAATACAGGCTCTCTAAGTCCATCAAGTGGGGTGGGCAGCCCTGTGTGAGGGACC
 CCCAAGCAGCTAGCCAGCATAAAATACTACCCCAATGACTTGGCAAAGAAGATGACCAATGCAGCA
 AGAGTCACCTGCCGAGTCAGGGCCCTGTCATCATTGACTGCAGGCCCTTCATGGAGTACAACAAGAGTCA
 CATCCAAGGAGCTGTCCACATTAAGTGTCCGATAAAGATCAGCCGCGGAGACTGCAGCAGGGCAAGATC
 ACTGTCCTAGACTTGATTTCTGTAGGGAAGGCAAGGACTCTTTCAAGAGGATCTTTTCCAAAGAAATTA
 TAGTTTATGATGAGAATACCAATGAACCAAGCCGAGTGATGCCCTCCCAGCCACTTCACATAGTCCCTCGA
 GTCCCTGAAGAGAGAAGGCAAAGAACCCTCTGGTGTGAAAGGTGGACTTAGTAGTTTTAAGCAGAACCAT
 GAAAACCTCTGTGACAACTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGCGGCATCCGCGGCCCT
 CGAGCTTGCTACCTCAGCCCATCCCCACCACCCTGACATCGAGAACGCTGAGCTCACCCCATCTTGCC
 CTTCTGTTCCTGGCAATGAGCAGGATGCTCAGGACCTGGACACCATGCAGCGGCTGAACATCGGCTAC
 GTCATCAACGTCACCCTCATCTTCCCCTTACCCTATGAGAAAGGCTTTTGAAGAGGCTTTTGAAGGAGC
 CAGCCACTGACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAAGAGGCTTTTGAAGGAGC
 TCACCAGTGTGGGAAGGGCTTTCATCCACTGCCAGGCTGGGGTGTCCCGCTCCGCCACCATCGTCATC
 GCTTACTTGATGAAGCACACTCGGATGACCATGACTGATGCTTATAAATTTGTCAAAGGCAACGACCAA
 TTATCTCCCCAAACCTTAACTTCATGGGCAGTTGCTAGAGTTCGAGGAAGACCTAAACAACGGTGTGAC
 ACCGAGAATCCTTACACCAAGCTGATGGGCGTGGAGACGGTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206760 representing NM_007207
 Red=Cloning site Green=Tags(s)

MPPSPLDDRIVVALSRPVRPQDLNLCLDSSYLGSANPGSNSHPPVIATTVVSLKAANLTYMPSSSGSARS
 LNCGCSSASCCTVATYDKDNQAQTQAI AAGTTTTAIGTSTTCPANQMVNNNTGSLSPSSGVGSPVSGT
 PKQLASIKI IYPNDLAKKMTKCSKSHLPSQGPVIIDCRPFMEYKSHIQGAVHINCADKISRRLQGGKI
 TVLDLISCREGKDSFKRIFSKIEIIVYDENTNEPSRVMPSPHLHIVLESLKREGKEPLVLKGGLSFKQNH
 ENLCDNSLQLQECREVGGSASAASSLLPQPIPTTPIENAE LTPILPFLFLGNEQDAQDLDTMQRLNIGY
 VINVTTHLPLYHYEKGLFNYKRLPATDSNKQNL RQYFEEAFEFIEEAHQCGKGLLIHCQAGVSRSATIVI
 AYLMKHTRMTMDAYKFVKGKRP IISP NLNFMQLLEFEEDLNNGVTPRILTPKLMGVETVV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007207

ORF Size: 1446 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_007207.6](#)

RefSeq Size: 2619 bp

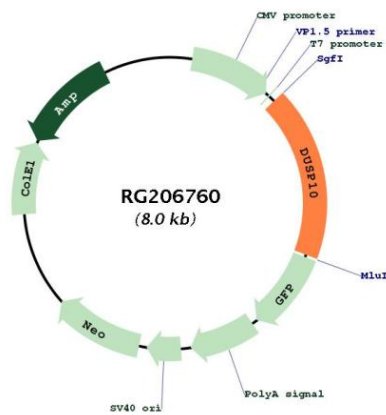
RefSeq ORF: 1449 bp

Locus ID: 11221

UniProt ID: [Q9Y6W6](#)

Cytogenetics: 1q41
Domains: DSPc, RHOD
Protein Families: Druggable Genome, Phosphatase
Protein Pathways: MAPK signaling pathway
Gene Summary: Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAP kinase superfamily, which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAP kinases, different tissue distribution and subcellular localization, and different modes of expression induction by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG206760