

Product datasheet for **MG207734**

Dusp10 (NM_022019) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp10 (NM_022019) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dusp10
Synonyms:	2610306G15Rik; AI158871; 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:

>MG207734 representing NM_022019
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCCATCTCCTTTAGACGACAGGGTAGTAGTGGCACTATCTAGGCCTGTCCGACCTCAGGATCTCA
 ACCTTTGTTTAGACTCAAGCTACCTTGGCTCTGCCAGCCAGGTAGTGGTAGCCACGCTCCTGTCCCTTG
 CACCGCGTTGTGACCCTCAAGGCTGCGAATCTGACGTATATGCCCTCATCCAGCGGCTCTGCCCGTCC
 CTGAATTGCGGATGCAGCAGCACTAGCTGCTGCACTGTGGCAACCTACGACAAGGATCATCAGGCCAGAG
 CTCAAGCCATTGCTGCAGGCACTGCCACCACCGCCATAGGAACCTCGACCACCTGCCCTGCTAACCCAGAT
 GGTCAACAACAATGAAAACACAGGCTCTGTGTTAAGTCCATCGGGTGGGGTGGGCAGCCCTGTGTCAGGG
 ACTCCCAAGCAGTAGCCAGCATCAAGATCATCTACCCCAATGACCTGGCAAAGAAGATGACCAAAATGCA
 GCAAGAGTCACCTGCCAGCCAGGGTCCCGTCATCATCGATTGCAGGCCTTTCATGGAGTACAACAAGAG
 TCACATCAAGGAGCTGTCCACATTAAGTGTGCCGATAAGATCAGCCGGCGAAGGCTGCAGCAGGGCAAG
 ATCACTGTCTTAGACTTGATTTCTGTAGGGAAGGCAAAGACTCTTTCAAGAGGATCTTTTCCAAAGAAA
 TTATAGTTTATGATGAGAATACCAATGAGCCAAGCCGTGTGACACCATCCAGCCACTTCACATAGTCTCT
 TGAGTCCCTGAAGAGAGAAGGCAAAGAACCCTGGTATTGAAAGGGGGACTCAGTAGTTTTAAACAGAAC
 CATGGAACCTCTGTGACAACCTCCCTCCAGCTCCAAGAGTGCCGGGAGGTGGGGGGTGGTGCATCTGCGG
 CCTCGAGCATGTACCTCAGTCTGTCCCCACCACCCTGACATCGAGAACGCAGAGCTAACGCCATCCT
 GCCCTTCTGTTCCTCGGCAATGAGCAGGATGCTCAGGACCTAGACACCATGCAGAGGCTCAACATCGGC
 TATGTCATCAACGTCACCACGCACCTTCTCTGTACCATTATGAGAAAGGCCTCTTCAACTACAAGAGGA
 TGCCAGCCACAGACAGCAACAACAGAACCTGCGGCAGTACTTTGAAGAGGCCTTCGAGTTCATCGAGGA
 AGCTCACCAAGTGTGGGAAGGGCCTTCTCATCCACTGCCAGGCCGGCGTGTCCCGATCCGCCACCATCGTC
 ATCGCCTACTTGATGAAGCACACACGGATGACCATGACTGACGCTTACAAATTCGTCAAAGGCAAACGCAG
 CAATTATTTCCCGAACCTCAACTTCATGGGGCAGTTGCTGGAATTTGAGGAAGACCTAAACAACGGCGT
 GACGCCAAGAATCCTTACACCAAGCTCATGGGCATGGAGACAGTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207734 representing NM_022019
 Red=Cloning site Green=Tags(s)

MPPSPLDDRIVVALSRPVRPQDLNLCLDSSYLGSASPGSGSHAPVLATAVVTLKAANLTYMPSSSSGARS
 LNCGCSSTSCCTVATYDKDHAQTQAI AAGTATTAIGTSTTCPANQMVNNTGTVLSPSGGVGSPVSG
 TPKQLASIKIIYPNDLAKKMTKCSKSHLPSQGPVIIDCRPFMEYKSHIQGAVHINCADKISRRRLQQK
 ITVLDLISCREGKDSFKRIFSKKIIIVYDENTNEPSRVTPSQPLHIVLESKREGKEPLVLKGLLSSFKQN
 HGNLCDNSLQLQECREVGGSASAASSMLPQSVPTTPIIENAEITPILPFLFLGNEQDAQDLDTMQRLNIG
 YVINVTTHLPLHYEKGLFNYKRLPATDSNKQNLRYFEEAFEFIEEAHQCGKGLLIHCQAGVSRSATIV
 IAYLMKHTRMTMDAYKFKGKRPDIISPNI NFMGQLLEFEEDLNNGVTPRILTPKLMGMETVV

TRTRPLE - GFP Tag - V

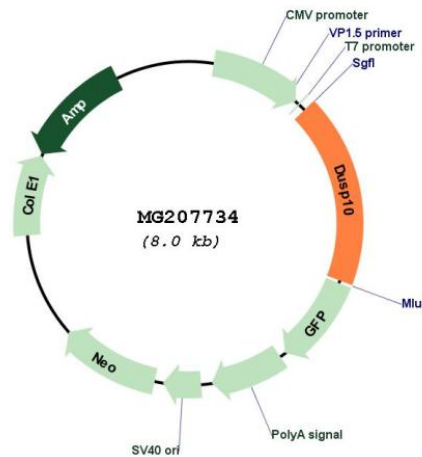
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022019

ORF Size: 1449 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_022019.2](#), [NP_071302.2](#)

RefSeq Size: 2713 bp

RefSeq ORF: 1452 bp

Locus ID: 63953

UniProt ID: [Q9ESS0](#)

Cytogenetics: 1 H5

Gene Summary: Protein phosphatase involved in the inactivation of MAP kinases. Has a specificity for the MAPK11/MAPK12/MAPK13/MAPK14 subfamily. It preferably dephosphorylates p38. [UniProtKB/Swiss-Prot Function]