

Product datasheet for **MG220464**

Dusp12 (NM_023173) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp12 (NM_023173) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dusp12
Synonyms:	1190004O14Rik; AA027408; AW049275; ENSMUSG00000045460; ESTM36; LMW-DSP4; mVH1; T-DSP4; VH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220464 representing NM_023173 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGAAGCGCAGGGTTCTAACCATGGCTGCGAGCGCCAGGCTCCGACTGCCAGTCCCAGCTCGG
CAGGGCACGCCGTGGAAGTGC GGCCCGGCTGTATCTGGGTGGGCAGCGCAGTGGCGAACCGGGCCA
TCTGAGGGAGGCGGGCATCACCGCGTGTGACGGTGGACTCTGAACCGCTTTCCCGGCTGGGGCTGGG
TTCGAAGGTCTCCGGAGCCTCTTCGTGCCGGCGCTGGACAAACCCGAGACCGACCTGCTCAGCCACCTGG
ATCGTGCCTGGCCTTCATCGGCCAGGCTCGCTCCGAAGCGCGCGGTGTTGGTGCAGTGCATGCAGG
AGTCAGTCGCAGTGTGCTGTAGTGATGGCTTTTATAATGAAGACCGACCAGCTTACCTTTGAAAAAGCC
TACGACATCCTCCGGACGGTCAAGCCAGAGGCTAAAGTGAATGAGGGTTTGAATGGCAACTGAACTGT
ATGAGGCAATGGGATACGAAGTCGATACGTCCAGTGCCTTTTACAAGCAGTACCGTTTACAAAAGGTGAC
TGAGAAGTGTCCAAAACCTTTGGAATTTACCTCAGGAACCTTTCGCTGTTGACCCAACTACCATTTACAG
GGATAAAAGATGACATTCTCTACAAATGCAGAAAATGCAGGCGGTCTTTATTTAGACATTCTAGTATTT
TGGGTCATAGTGAAGGAAGTGGGCAATAGCCTTTGCTCACAAGAGAACGGCGCCATCTTCTGTACTTAC
CACAGGGAGTCAGGCTCAGTGCAGCTTACTTCATTGAGCCTGTGCAGTGGATGGAATCTACTCTGTTG
GGCGTTATGGATGGACAGCTTCTTTGCCAAAATGCAGTGCCAAGTTGGGTTCTTTAACTGGTATGGTG
AACAGTGTCTGTGGTGCATGGATAACCCCTGCTTTTCAAATACACAAGAACAGAGTGGATGAAATGAA
AATGTTGCCGGTGTGGATCACAGACAAGAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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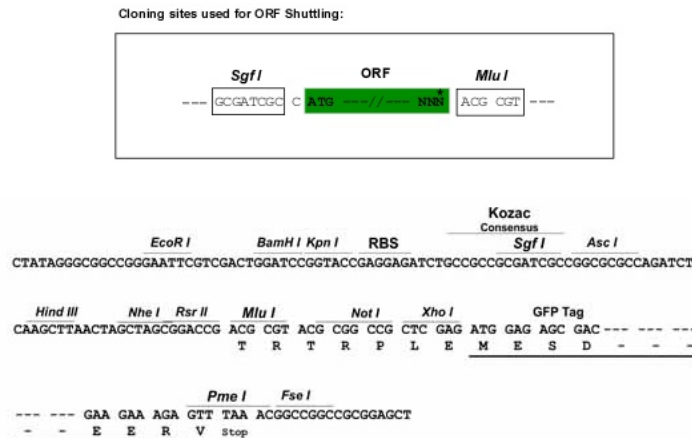
Protein Sequence: >MG220464 representing NM_023173
 Red=Cloning site Green=Tags(s)

MLEAQQSNHGGERQAPTASPASSAGHAVEVRPGLYLGGAAVAEPGHLREAGITAVLTVDSEPAFPAGAG
 FEGLRSLFVPALDKPETDLLSHLDRCVAFIQARSEGRAVLVHCHAGVSRSVAVVMAFIMKTDQLTFEKA
 YDILRTVKPEAKVNEGFWEQLKLYEAMGYEVDTSFAFYKQYRLQKVTEKCPKLWNLPELFAVDPTTISQ
 GLKDDILYKCRKRRSLFRHSSILGHSESGPIAFAHKRTAPSSVLTGSAQACTSYFIEPVQWMESTLL
 GVMDGQLLCPKCSAKLGSFNWYGEQCSCGRWITPAFQIHKNRVDEMMLPVLGSQTKKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023173

ORF Size: 1017 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_023173.2](#), [NP_075662.2](#)

RefSeq Size: 1413 bp

RefSeq ORF: 1020 bp

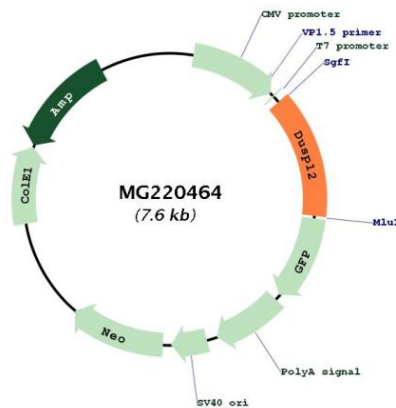
Locus ID: 80915

UniProt ID: [Q9D0T2](#)

Cytogenetics: 1 H3

Gene Summary: Dual specificity phosphatase; can dephosphorylate both phosphotyrosine and phosphoserine or phosphothreonine residues. Can dephosphorylate glucokinase (in vitro). Has phosphatase activity with the synthetic substrate 6,8-difluoro-4-methylumbelliferyl phosphate and other in vitro substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220464