

Product datasheet for **MR214081**

Dusp28 (NM_175118) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Dusp28
Synonyms:	0710001B24Rik; AV005521
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR214081 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCACCTCGGAGGCTGCACCGCCGCCCTTTCGCGCGCGTCGCCCCGCGCTCTTCATCGGGAATGCGC
GAGCCGCGGGTGCACGAGAGCTGCTGGTGCAGCGCGGGCATCACTTTGTGCGTCAATGTCTCCCGCCAGCA
GCCCCGGCCGCGCGCGCCGGAGTGGCGGAACACGCGTACCCGTGTTGACGACCCAGCTGAGGACCTG
CTGACACACCTGGAGCCACCTGTGCCCCATGGAAGCCGCGGTGCGCGACGGCGGCTCTGTCTCGTGT
ACTGCAAGAACGGCCGAGTCGCTCAGCCGCCGTCTGCACCGCTACCTAATGCGGCACCGCGGCCACAG
CCTGGATCGCGCCTTCCAGATGGTGAAGAGCGCCCGCCGGTAGCCGAGCCCAATTTGGGGTTCTGGGCT
CAGCTGCAGAAGTACGAGCAGACCTTCAGGCCAGGCCATCTGCCCCGGGAGCCATTGATCCGGAG

AGCGGACCGACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR214081 protein sequence
Red=Cloning site Green=Tags(s)

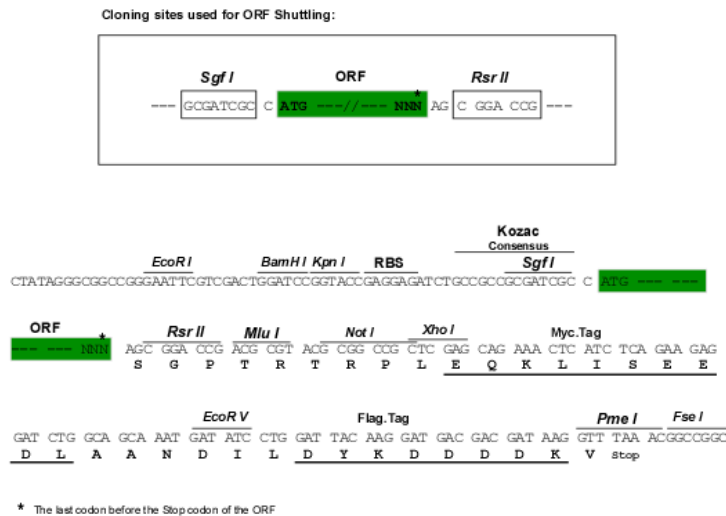
MGTSEAAPPPFARVAPALFIGNARAAGATELLVRAGITLCVNVSRQQPGPRAPGVAELRVPVFDDPAEDL
LTHLEPTCAAMEAAVRDGGSCLVYCKNGRSRSAAVCTAYLMRHRGSLDRAFQMVKSARPVAPENLGFWA
QLQKYEQLQAQAILPREPIDPE

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII



Cloning Scheme:



ACCN: NM_175118

ORF Size: 489 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.

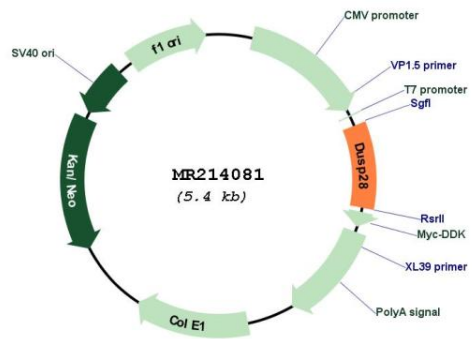
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175118.3](#), [NP_780327.1](#)

RefSeq Size:	1491 bp
RefSeq ORF:	492 bp
Locus ID:	67446
UniProt ID:	Q8BTR5
Cytogenetics:	1 D
MW:	17.5 kDa

Gene Summary: Has phosphatase activity with the synthetic substrate 6,8-difluoro-4-methylumbelliferyl phosphate (in vitro). Has almost no detectable activity with phosphotyrosine, even less activity with phosphothreonine and displays complete lack of activity with phosphoserine. The poor activity with phosphotyrosine may be due to steric hindrance by bulky amino acid sidechains that obstruct access to the active site.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214081