

Product datasheet for **RG206912**

DUSP28 (NM_001033575) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DUSP28 (NM_001033575) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DUSP28
Synonyms: DUSP26; VHP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206912 representing NM_001033575
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCGGCAGAAAGCTGGGCGCCGGGGCCGCCTCGCCCGTACCTCCACCGTTGGTGC CGTCGCGC
CCTCACTTCTCGGGAGCGCGAGCCGCGGGCGGGAGGAGCAGCTGGCGCGCGGGAGTCAACGCT
GTGCGTCAACGTCTCCGCCAGCAGCCCGCCGCGCGCCCGCGTGGCAGAGCTGCGCGTGCCTG
TTCGACGACCCGGCTGAGGACCTGCTGGCGCACCTGGAGCCACGTGCGCCGCCATGAGAGCCGCGGTG
GCGCCGCGCGCCTGCCTAGTCTACTGCAAGAACGGCCGAGCCGCTCGCCCGCCTCTGCACCGCGTA
CCTCATGCGGCACCGCGCCTCAGCCTGGCGAAGCCTTCCAGATGGTGAAGAGCGCTCGCCCGGTAGCA
GAACCGAACC CGGCTTCTGGTCTCAGCTCCAGAAGTATGAGGAGGCCCTCCAGGCCAGTCTGCCTGC
AGGGAGAGCCCCAGCCTTAGGGTTGGCCCTGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206912 representing NM_001033575
Red=Cloning site Green=Tags(s)

MGP A E A G R R G A A S P V P P L V R V A P S L F L G S A R A A G A E E Q L A R A G V T L C V N V S R Q Q P G P R A P G V A E L R V P V
F D D P A E D L L A H L E P T C A A M E A A V R A G G A C L V Y C K N G R S R S A A V C T A Y L M R H R G L S L A K A F Q M V K S A R P V A
E P N P G F W S Q L Q K Y E E A L Q A Q S C L Q G E P P A L G L G P E A

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001033575

ORF Size: 528 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_001033575.1](#), [NP_001028747.1](#)

RefSeq Size: 1555 bp

RefSeq ORF: 531 bp

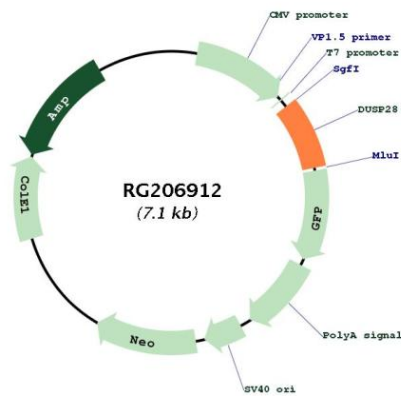
Locus ID: 285193

UniProt ID: [Q4G0W2](#)

Cytogenetics: 2q37.3

Gene Summary: Has phosphatase activity with the synthetic substrate 6,8-difluoro-4-methylumbelliferyl phosphate (in vitro) (PubMed:24531476, PubMed:29121083). Has almost no detectable activity with phosphotyrosine, even less activity with phosphothreonine and displays complete lack of activity with phosphoserine (PubMed:29121083). The poor activity with phosphotyrosine may be due to steric hindrance by bulky amino acid sidechains that obstruct access to the active site (PubMed:29121083).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206912