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Product datasheet for RG227061

DUSP19 (NM_001142314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP19 (NM_001142314) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUSP19
Synonyms:	DUSP17; LMWDSP3; SKRP1; TS-DSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG227061 representing NM_001142314
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACTCCCTTAACCAGGAAATTAAAGCATTCTCCCGGAATAATCTCAGGAAGCAATGCACCAGGGTGA
CAACGCTAACTGGAAAGAAAATTATAGAAACATGGAAAGATGCCAGAATTCATGTTGTGGAAGAAGTAGA
GCCGAGCAGTGGGGGTGGTTGTGGTTATGTGCAGGACCTTAGCTCGGACCTGCAAGTTGGCGTTATTAAG
CCATGGTTGCTCCTAGGGTCACAAGATGCTGCTCATGATTTGGATACACTGAAAAAGAATAAGGATGGAG
TGGTTCTTGTTCATTGTAATGCAGGCGTTTCCAGGGCTGCTGCAATTGTAATAGGTTTCCTGATGAATTC
TGAACAAACCTCATTTACCAGTGCTTTTTCTTTGGTGAAAAATGCAAGACCTTCCATATGTCCAAATTCT
GGCTTCATGGAGCAGCTTCGTACATATCAAGAGGGCAAAGAAAGCAATAAGTGTGACAGAATACAGGAGA
ACAGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227061 representing NM_001142314
Red=Cloning site Green=Tags(s)

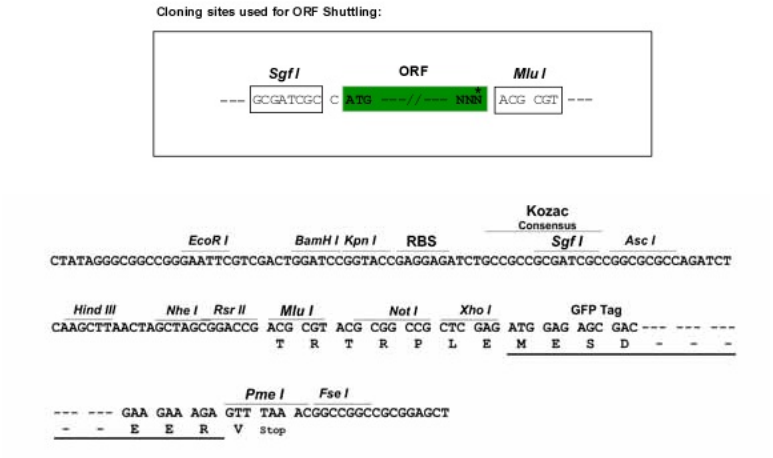
MYSLNQEIKAFSRNNLRKQCTRVTTLTGKKIIETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVIK
PWLLLGSQDAAHDLDTLKKNKDGVVLVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSICPNS
GFMEQLRTYQEGKESNKCDRIQENSS

TRTRPLE - GFP Tag - V

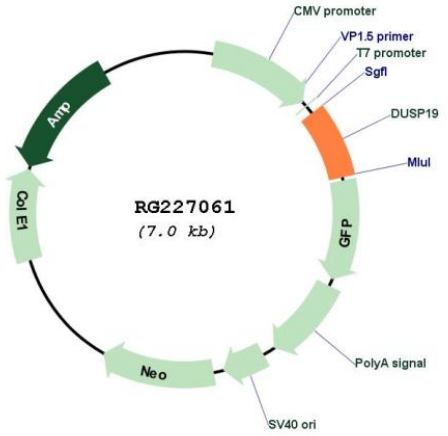
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001142314
ORF Size:	498 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_001142314.2
RefSeq Size:	5226 bp
RefSeq ORF:	501 bp
Locus ID:	142679
UniProt ID:	Q8WTR2
Cytogenetics:	2q32.1
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP19 contains a variation of the consensus DUSP C-terminal catalytic domain, with the last serine residue replaced by alanine, and lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]