

Product datasheet for RC201119L3

DUSP3 (NM_004090) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DUSP3 (NM_004090) Human Tagged Lenti ORF Clone

Tag:Myc-DDKSymbol:DUSP3

Synonyms: VHR

Selection:

Mammalian Cell

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clor

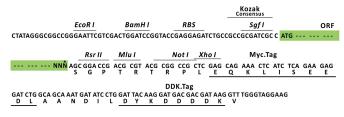
Sequence:

The ORF insert of this clone is exactly the same as(RC201119).

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_004090

ORF Size: 555 bp



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DUSP3 (NM_004090) Human Tagged Lenti ORF Clone - RC201119L3

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: <u>NM 004090.2</u>

RefSeq Size: 4139 bp
RefSeq ORF: 558 bp
Locus ID: 1845

 UniProt ID:
 P51452

 Cytogenetics:
 17q21.31

Domains: DSPc

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

MW: 20.5 kDa

Gene Summary: The protein encoded by this gene is a member of the dual specificity protein phosphatase

subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer. Although DUSP3 is expressed in both breast and ovarian tissues, mutation screening in breast cancer pedigrees and in sporadic tumors was negative, leading to the conclusion that this gene is not BRCA1.

[provided by RefSeq, Jul 2008]