

## Product datasheet for RC216245

### DUSP6 (NM\_022652) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP6 (NM_022652) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DUSP6
Synonyms:	HH19; MKP3; PYST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216245 representing NM_022652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATAGATACGCTCAGACCCGTGCCCTTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCA  
ACGAGCAGCTGGAGCTGGGCAACGAGCGGCTGCTGCTGATGGACTGCCGGCCGCAGGAGCTATACGAGTC  
GTCGCACATCGAGTCGGCCATCAACGTGGCCATCCCGGGCATCATGCTGCGGCGCCTGCAGAAGGGTAAC  
CTGCCGGTGC GCGCTTTCACGCGCGGCGAGGACCGGGACCGCTTACCCGGCGCTGTGGACCGACA  
CAGTGGTGTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACGGGCGCGAGTCCGGTGTCCGGCT  
GCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGCGTTCACCTGGAAGATGAAGCCCGGGCAAGAAC  
TGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCTTATGC  
AGAAGCTCAATCTGTCGATGAACGATGCCTATGACATTGTCAAAATGAAAAATCCAACATATCCCTAA  
CTTCAACTTATGGGTCAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGACAACAGG  
GTTCCAGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAAT  
CTACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_022652.4](#)

**RefSeq Size:** 2404 bp

**RefSeq ORF:** 708 bp

**Locus ID:** 1848

**UniProt ID:** [Q16828](#)

**Cytogenetics:** 12q21.33

**Domains:** DSPc, RHOD

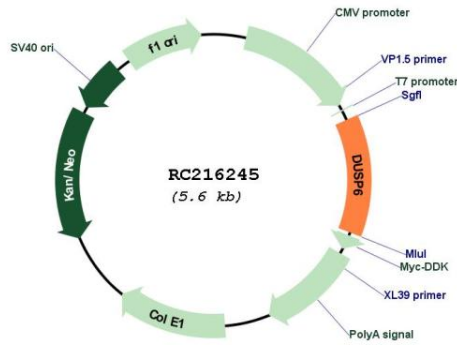
**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** MAPK signaling pathway

**MW:** 26.3 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 product inactivates ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RC216245