

## Product datasheet for **SC115747**

### DUSP14 (NM\_007026) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP14 (NM_007026) Human Untagged Clone
Tag:	Tag Free
Symbol:	DUSP14
Synonyms:	MKP-L; MKP6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115747 sequence for NM_007026 edited (data generated by NextGen Sequencing)

```
ATGAGCTCCAGAGGTCACAGCACGCTACCAAGGACTCTCATGGCCCTCGGATGATTTCC
GAGGGAGACATAGGAGGCATTGCTCAAATCACCTCCTCTCTATTCTGGGCAGAGGCAGT
GTGGCCTCCAATCGGCACCTCCTCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACC
ATTGAGATCCCTAATTTCAACTGGCCCAATTTGAGTATGTTAAAGTGCCTCTGGCTGAC
ATGCCGCATGCCCCATTGGACTGTACTTTGACACCGTGGCTGACAAGATCCACAGTGTG
AGCAGGAAGCACGGGGCCACCTTGGTGCCTGTGCTGCAGGGGTGAGCCGCTCAGCCACG
CTGTGTATCGCGTACCTGATGAAATCCACAACGTGTGCCTGCTGGAGGCGTACAACGG
GTGAAAGCCCGGCACCTGTCATCAGGCCAACGTAGGCTTCTGGAGGCAACTGATAGAC
TACGAGCGCCAGCTCTTTGGGAAGTCGACAGTTAAAATGGTACAGACACCTTATGGCATA
GTTCCCGACGCTCTATGAGAAGGAGTCCCGACACCTGATGCCTTACTGGGGATTAG
```

Clone variation with respect to NM\_007026.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007026 unedited  
 GTCACATAATTTGTAATACGACTCACTATAGGNNCGGCCGCGCAATTCGGCAGGAGGCA  
 GGAGGACGGAGCCCTAACCGCAACCCGCGCCGCGCCGCGCGGATTTGATTGTATCCACT  
 GTCACCAGCACTGCTCACTTAGGACTTTCTGGATCCAGACCCAGGCAGCGCACACTGGAC  
 TCTTGAGGAAGAAGGAGACTCTAATTTTGGATTCTTGGTGGAGGAAAATAAACACTCT  
 GGTCTTGCCGCCAACGATGCAAGTGTGACTGCTGGCGTCTTCATGAGTCCAGAGGTCAC  
 AGCACGCTACCAAGGACTCTCATGGCCCTCGGATGATTTCCGAGGGAGACATAGGAGGC  
 ATTGCTCAAATCACCTCCTCTATTCTGGGCAGAGGCAAGTGTGCCTCCAATCGGCAC  
 CTCTCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTAATTTT  
 AACTGGCCCAATTTGAGTATGTTAAAGTGCTCTGGCTGACATGCCGATGCCCCATT  
 GGACTGTACTTTGACACCGTGGCTGACAAGATCCACAGTGTGAGCAGGAAGCACGGNGCC  
 ACCTTGGTGCCTGTGCTGCAGGGGTGAGCCGCTCAGCCACGCTGTGTATCGCGTACCTG  
 ATGAAATTCACAACGTGTGCCTGCTGGANGCGTACAACCTGGTAAAGCCCGGCGACCT  
 GTCATCANGCCCAACGTANGCTTCTGGAGCAACTGATAGACTACGAGCGCCACCTTTT  
 GGGAAAGTCCACAGTTAAATGGTACAGACACCCTATGGCATAAGTCCCGACGTCTATGAA  
 AAGAGTCCCGACCCCTGATGCCCAACTGNGGGATTTATGGCCCTGAACCTGCGTCAG  
 CAGCCCCAAGCGGGGCCGATTTTGTCCCCCGTTTGGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007026 unedited  
 GGCCGCGCCGCAATCTAGAGTCGAGTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTATAAGCATATAAATTTATTAATAAATAATGCTAATATAATCTGGGCACATGG  
 GTTCCAAAAGAAATTTTGCAGCAAATTTTATTATAGTTACTTAACACCTAAATAATAAGG  
 GGGTTTTTAACCTACTTACAGACTCCCTAAATAATGGAGGGGAAAGGAAAGAGTAGGGCT  
 AATCCACTAAAACTGAACCTGGTATCAACCTTCCCTAAACATCTGCCTGGCCCGACCC  
 TGGGGCAAACTTGGTTTTAAAGGGTAAATGAGGCCCAAAAGTGATTTTTGCACTGAGCT  
 TCTCTGCTCTACCAAGGGGCCAAGTGCCTGACATTCCAATAGATCCCAACCAAGTTT  
 ATTAACCTGTTCAAATTTGGTAAAAATGATTAAGCCTAAAAATCTTCATCAACCTCTT  
 CCCAAATGCTAATTTCAAAAACGGACCTACAACGGATGCATCTCTTTTTTGGCCCCC  
 CCCCTCCCTATCTTTAAAACAAACGCAACCCCATGTGCAAAAAACACTTTTCAAGGAGA  
 ACCAAAACCTCAGCCTTTTAAAAAAAAGCCGATACGGGACCCACCGCGGGCCACACCAG  
 CCCGCGCCACCTCTGGCATTGTTAACTAGCTTTTTTCGCTCCTCAACTCCCCCAAGGC  
 CCAGGCGTCCGACCCCTCCAAAACCGCCGGAACCATGCCCAAGGGTCTTGAACCT  
 TTAAACCGTGCCCTTCCAAAACCGTCCCGTGTCTAACACTCCACCCCAACCCCTCT  
 CTGGGCCCAACCAAGAGCCCCACTTTACCCATCGTACCCTCTCACACGCCCCGCGCG  
 GAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007026

**Insert Size:**

1500 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007026.1</a> , <a href="#">NP_008957.1</a>
<b>RefSeq Size:</b>	1471 bp
<b>RefSeq ORF:</b>	597 bp
<b>Locus ID:</b>	11072
<b>UniProt ID:</b>	<a href="#">O95147</a>
<b>Cytogenetics:</b>	17q12
<b>Domains:</b>	DSPc
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>Gene Summary:</b>	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. DUSP14 contains the consensus DUSP C-terminal catalytic domain but 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]