

## Product datasheet for SC113258

### MOSPD1 (NM\_019556) Human Untagged Clone

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Name:             | MOSPD1 (NM_019556) Human Untagged Clone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tag:                      | Tag Free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Symbol:                   | MOSPD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Synonyms:                 | DJ473B4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mammalian Cell Selection: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Vector:                   | <u>pCMV6-XL5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Fully Sequenced ORF:      | <p>&gt;OriGene ORF within SC113258 sequence for NM_019556 edited (data generated by NextGen Sequencing)</p> <pre> ATGCATCAACAAAAAGACAACCAGAGTTAGTGGAAGGAAATCTTCCTGTTTTTCGTGTTCC CCACGGAGCTCATATTTTATGCAGATGATCAGTCAACACATAAGCAAGTTTGACACTG TACAATCCCTATGAGTTTGCCTTAAAGTTCAAAGTTTTGTGTAATACTCCAAATAAGTAT GTTGTCGTTGATGCTGCAGGTGCAGTAAAGCCTCAGTGTGTGGATATTGTGATTCGT CATCGAGATGTTGATCCTGTCATATGGTGTAATAGACAAATCCGTCTCCAAGTTTCC GAGCAAAGCCAAAGGAAGGCTTTGGGAAGAAAAGAGGTTGTTGCTACTCTTCTCCCATCA GCAAAAGAACAAAAAGGAAGAAGAGGAAAAAGATTAAAGGAACATTTAACTGAAAGT TTATTTTTTGGAGCAGTCGTTTCAACCAGAAAACAGAGCTGTATCCTCAGGACCTAGTTTA CTAACTGTCTTCTGGGAGTGGTGTGCATTGCAGCCCTGATGCTGCCTACACTGGGGGAT GTGGAATCGTGGTGCCTCTCTACCTCCACTTAAGTGTGAATCAAAAATTAGTGGCTGCT TATATCTTAGGTCTTATCACAATGGCCATACTTAGAACATGA </pre> |

Clone variation with respect to NM\_019556.1



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_019556 unedited  
 CCGTCAACATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCCTCGTG  
 CCGAATTCGGCACGAGGAGTCCGAGCTGCTTTCCGAGGAAGCCGGTGTGCCGAGATTGC  
 CAAAATGCTTTGGAGTTTTTAAGTGAATCTAAGAAAAGTCCAAAATAGATTTGAGACTGT  
 AAAACAGAACTGCAGCAAGGGGATTGAGTCCCAATGCATCAACAAAAAGACAACCA  
 GAGTTAGTGAAGGAAATCTTCTGTTTTCTGTTCCCGAGGAGCTCATATTTATGCA  
 GATGATCAGTCAACACATAAGCAAGTGTGACACTGTACAATCCCTATGAGTTTGCCTTA  
 AAGTTCAAAGTTTTGTGTACTACTCCAAATAAGTATGTTGTCGTTGATGCTGCAGGTGCA  
 GTAAAGCCTCAGTGTTGTGTGGATATTGTGATTGTCATCGAGATGTTTCGATCCTGTAC  
 TATGGTGAATAGACAAATTCCTCTCCAGTTTCCGAGCAAAGCCAAAGGAAGGCTTTG  
 GGAAGAAAAGAGGTTGTTGCTACTCTTCTCCATCAGCAAAGAACAACAAAGGAAGAA  
 GAGGANAAGATTAAGGAACATTTAACTGAAAGTTATTTTTGAGCAGTCGTTTCAA  
 CCAGAAAACAGAGCTGTATCCTCAGGACCTAGTTTAACTGTCTTCTGGGAGTGGTG  
 TGCATTGCAGCCCTGATGCTGCCTACACTGGGGATGTGGAATCGCTGGTGCCTCTCTAC  
 CTCCACTTAAGTGTGAATCAAATTAAGTGGCTGCTTATATCCTAAGTCTTATCACAATGG  
 CCATACTTAGAACATGACCAAGGATTTCAATTGACTTCTGAGTAAATCTGTCTCTGAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_019556 unedited  
 GCGGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTCAGGTCTCCATTTCTGTTT  
 ATTTTTTAAAGTAATTTCTGTTCTTTACAATGTGTTATTACACACACATGTGCACTTG  
 CACACACGTGCACACACAGGACTTGAGATGGAGAAACAAGAATAGCCTCCACACATCATT  
 TTTACAAAGTTCAAAGTAGATTACATTTATGTGCTTTTCATTATTACACAATGTACAGA  
 CATGATCCGTTTAAAGTCTAGGCTCCTCACATGGTTAAACAGTGAGGATTTCTATGGA  
 AGACTAGACATAGAAGTTTTTAGAAGCAGAGACTGTTTTCTGCAAAAACCAACCTCAGGC  
 ATACATTTGTGTTTACATATATTCCTTGAGAATACTACAGTAGCAGTGCATAAGTTCATT  
 CTGTAAAAAGATCTGAAAGATGATTTTCAAGAGACTCAATACATTGTGCTTTCAGGTAAA  
 AATCCTTAGACAAAAGATCAGTTACTATGAAAATAACAGTTAAACTGCATATGTGTTAG  
 AGATCAGAAGAGGCTATAAAGAAATGTAATAGTTGTGCTTAGGGGACTTTTTGGCAA  
 GTTGTCTTAATAATAAATAAACTTAAAAAAGTCTCAGTGACTGATATAAATAGAC  
 ATAGCTATCAAGAGTTTCTTACACTTGGCTTAGAGTTTAAAGTGAAAAATCATCTCCAC  
 ATAAATCACCTGGTATCTGGTAATCCAGTCTGGGTAAGTCAGGCAGGGAGGGGCTTGA  
 AGAAAGAAAAAGTGATTTTNCCTTCTTATTTACAAAGCATTAAACCAGAGGTAAGCCAG  
 GGTGAACCAACTAATTAACAGATGCCTACCTTNCCTTTAGAACTCTAAACCAAGAGAGAGT  
 CACCCTACTCCTATTAGGGTTTTTAAAAAAACCTTGATCTTTGTGCTGGACAACAAC  
 CTGTCTGAANTTACAAGATAAT

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_019556

**Insert Size:**

2420 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>                | <u>NM_019556.1, NP_062456.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2358 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 642 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 56180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q9UJG1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | Xq26.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | MSP_domain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Summary:</b>          | <p>Plays a role in differentiation and/or proliferation of mesenchymal stem cells. Proposed to be involved in epithelial-to-mesenchymal transition (EMT). However, another study suggests that it is not required for EMT or stem cell self-renewal and acts during later stages of differentiation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>                                                                |