

Product datasheet for **SC126581**

Dispatched (DISP1) (NM_032890) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dispatched (DISP1) (NM_032890) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dispatched
Synonyms:	DISPA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032890, the custom clone sequence may differ by one or more nucleotides

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ATGGCTATGAGCAATGGAACAATGATTTTGTGGTTCTGAGCAACAGCAGCATCGCAACCAGTGCTGCTA
ACCCGAGTCCCCTCACCCCTGTGATGGAGACCATGCAGCCCAGCAGCTCACACCCAAAGAAGCAACAAG
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TTCTTTGATTGTTTCCTATTTTCTCTATCGTGTAGTATTTCACTTCGAATTTTTCTTTTATGAACCTC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032890 unedited
 TTTGTATACGACTTACTATAGGCGGCCGACGAATTCGCACGAGGCCGAGAGCCCGGACTG
 GAGGAGTTGAGAAGAGGAGGAAGAATATGGGAGGAGACAGGACCTTTTTCAACTTGACAA
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 GGATGCCTGCAACTTAATGGCACGGTCAAATCATCTTTCTGCCTTTAGACAACCAAGA
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 TTGGCCTGTGCACCATGTTTCATCGAAGTCTGGCCTCTGGTGGAGTATAGTCCAGAACTC
 CCTGATTTCTCTGACCATGGCTGGTTTTGAACCAAGAACACCCATAGCCCAAAATGTGC
 CCATGAAATTTTGGGAAAATTCGGGACCAAGACCCTTCCAAATTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032890 unedited
 CCACTCTGGACCCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTCTGAATTGA
 ATGCTGCATTTATTATAGTGTTTTTATTAACAACTTTACCAGAAAGTTCCGAGTGTGT
 TAATACAGCAGGCACATTGGCTTCCATGTTTGGCATTGACAGTCCACAGAATTGCACTT
 CACTCTCACAATTCTGCCACAACCTTTGTGAATTTTGGGCAAGACCTACAACAGCCTC
 CCCCATTAATGATTAATAGGACTTTTGGTTCATTCTGATTGAAATGTTCTGAGTTCAC
 ACTTGCATCCGTCTGTGACAAGCTCAGCTCCACTTTCCCTCCTGCCTGTTTTAGTCCC
 TCCACTGCTCTCCAGATTGCTCACGTCTCTATTTTACAGAGTCCCTTTGTTTTATTCTC
 GGGGTGCAACACGTTTTGAGTAACGATCCAGTCTTCTGCAGACAAATGACGATGGCTC
 TGCCATCTTTGGAAGATGCTCTTCTATGCTCCTCTGAAGACTGTGTACATTGGTCTGCC
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 GATGGGTGCACAAAGCCCTCGACAGCTTGGTGTGTGGCCTTCCAGAGTGCCTCCGCCGTT
 TTGATCNCGGACAAAAGTCTAATGGGAGGAGAACTGGTGGCCCAAGCAGTCCCCCAT
 CTGCTGGCCAGAGTGGGGCCATAGCTCAGCGTTTGTAGGCATCGGGGAGCTACATCT
 CTGATCAAAGAAAAAATGCCCCCGTTGCTGGTCCAGAGGGCCGGAACAAGCAAACC
 CACCCCTTTCAGGCCTTTCGGAAACCCCGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_032890

Insert Size:

4700 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).

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_032890.2](#), [NP_116279.2](#)

RefSeq Size: 4743 bp

RefSeq ORF: 4575 bp

Locus ID: 84976

UniProt ID: [Q96F81](#)

Cytogenetics: 1q41

Domains: Patched

Protein Families: Transmembrane

Gene Summary: The pattern of cellular proliferation and differentiation that leads to normal development of embryonic structures often depends upon the localized production of secreted protein signals. Cells surrounding the source of a particular signal respond in a graded manner according to the effective concentration of the signal, and this response produces the pattern of cell types constituting the mature structure. A novel segment-polarity gene known as dispatched has been identified in Drosophila and its protein product is required for normal Hedgehog (Hh) signaling. This gene is one of two human homologs of Drosophila dispatched and, based on sequence identity to its mouse counterpart, the encoded protein may play an essential role in Hh patterning activities in the early embryo. [provided by RefSeq, Jul 2008]