

Product datasheet for **SC303322**

Frizzled 7 (FZD7) (NM_003507) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 7 (FZD7) (NM_003507) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 7
Synonyms:	FzE3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003507 edited
 ACTCGCGCCGGCGATGCGGGACCCCGCGCGCCGCTCCGCTTTCGTCCTGGGCCTCT
 GTGCCCTGGTGTGCGCGTGTGGCGCACTGTCCGCGGGCGCCGGGCGCAGCCGTACC
 ACGGAGAGAAGGCATCTCCGTGCCGGACCACGGCTTCTGCCAGCCCATCTCCATCCCGC
 TGTGCACGGACATCGCCTACAACCAGACCATCCTGCCAACCTGTGGGCCACACGAACC
 AAGAGGACGCGGGCCTCGAGGTGACCAAGTTCTACCCGCTGGTGAAGGTGCAAGTTCTC
 CCGAACTCCGCTTTTTCTATGCTCCATGTATGCGCCCGTGTGCACCGTGTCTCGATCAGG
 CCATCCCGCCGTGTCTGTCTGTGCGAGCGGCCCGCCAGGGCTGCGAGGCGCTCATGA
 ACAAGTTCGGCTTCCAGTGGCCGAGCGGCTGCGCTGCGAGAACTCCCGGTGCACGGT
 CGGGCGAGATCTGCGTGGGCCAGAACACGTCCGACGGCTCCGGGGGCCAGGCGGGCC
 CCACTGCCTACCCTACCGCGCCCTACCTGCCGGACCTGCCCTTACCAGCGCTGCCCCGG
 GGGCCTCAGATGGCAGGGGGCGTCCCGCCTTCCCTTCTCATGCCCCCGTCAGTCAAGG
 TGCCCCCGTACCTGGGCTACCGCTTCTGGGTGAGCGCGATTGTGGCGCCCCGTGCGAAC
 CGGGCCGTGCCAACGGCCTGATGTACTTTAAGGAGGAGGAGAGGCGCTTCGCCCGCCTCT
 GGGTGGGCGTGTGGTCCGTGCTGTGCTGCGCCTCGACGCTCTTACCCTTCTCACCTACC
 TGGTGGACATGCGGCGCTTACGTACCCAGAGCGGCCATCATCTTCTGTGGGCTGTCT
 ACTTATGGTGGCCGTGGCGCACGTGGCCGGCTTCTTCTAGAGGACCGCGCCGTGTGCG
 TGGAGCGCTTCTCGGACGATGGCTACCGCACGGTGGCGCAGGGCACCAGAAGGAGGGCT
 GCACCATCCTCTCATGGTGTCTACTTCTTCCGATGGCCAGCTCCATCTGGTGGGTCA
 TTCTGTCTCACTTGGTTCCTGGCGCCGCGCATGAAGTGGGGCCACGAGGCCATCGAGG
 CCAACTCGCAGTACTTCCACCTGGCCGCGTGGGCCGTGCCCGCCGTCAAGACCATCACTA
 TCCTGGCCATGGGCCAGGTAGACGGGGACCTGCTGAGCGGGGTGTGCTACGTTGGCCTCT
 CCAGTGTGGACGCGCTGCGGGGCTTCGTGCTGGCGCCTCTGTTCTGCTACCTTTCATAG
 GCACGCTCTTCTGCTGGCCGGCTTCGTGTCCCTTCCCGTATCCGCACCATCATGAAAC
 ACGACGGCACCAGACCGAGAAGCTGGAGAAGCTCATGGTGGCGCATCGGCGTCTTCAGCG
 TGCTCTACACAGTCCCCGCCACCATCGTCTGGCCTGCTACTTCTACGAGCAGGCCTTCC
 GCGAGCACTGGGAGCGCACCTGGCTCCTGCAGACGTGCAAGACTATGCCGTGCCCTGCC



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CGCCCGGCCACTTCCCGCCCATGAGCCCCGACTTCACCGTCTTCATGATCAAGTACCTGA
TGACCATGATCGTCGGCATCACCCTGGCTTCTGGATCTGGTCGGCAAGACCCTGCAGT
CGTGGCGCCGCTTCTACCACAGACTTAGCCACAGCAGCAAGGGGGAGACTGCGGTATGAG
CCCCGGCCCTCCCCACCTTTCCACCCAGCCCTCTTGAAGAGGAGAGGCACGGTAGG
GAAAAGAACTGCTGGGTGGGGCCTGTTTCTGTAACCTTCTCCCCTCTACTGAGAAGTG
ACCTGGAAGTGAGAAGTTTTTTCAGATTTGGGGCAGGGGTGATTTGAAAAAGAAGACC
TGTGTGAAAGCGGTTTGGATGAAAAGATTTTCAGGCAAAGACTTGCAGGAAGATGATGAT
AACGGCGATGTGAATCGTCAAAGGTACGGGCCAGCTTGTCCCTAATAGAAGGTTGAGACC
AGCAGAGACTGCTGTGAGTTTCTCCCGCTCCGAGGCTGAACGGGGACTGTGAGCGATCC
CCCTGCTGCAGGGCGAGTGGCTGTCCAGACCCCTGTGAGGCCCGGAAAGGTACAGCC
CTGTCTGCGGTGGCTGCTTTGTTGAAAGAGGGAGGGCCCTCCTGCGGTGTCTTGTCAAG
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GTGGAGTAGGTATTTTTGCTACTTTTTCTGTTTCTGGGGAAGGCAGGAGGCAGAAAGACC
GGTGTATTTTGGTCTAATACCCTGAAAAGAAGTATGACTTGTGCTTTTCAAAACAG
GAATGCATTTTTCCCTTGTCTTTGTTGTAAGAGACAAAAGAGGAAACAAAAGTGTCTCC
CTGTGAAAGGCATAACTGTGACGAAAGCACTTTTATAGGCAAAGCAGCGCAAATCTGA
GGTTTCCCGTTGGTTGTTAATTTGGTTGAGATAAACATTCCTTTTTAAGGAAAAGTGAAG
AGCAGTGTGCTGTACACACCGTTAAGCCAGAGTTCTGACTTCGCTAAAGGAAATGTAA
GAGGTTTTGTTGTCTGTTTTAAATAAATTAATTCGGAACACATGATCCAACAGACTATG
TTAAAAATTCAGGGAAATCTCTCCCTTCACTTTTCTTTTCTTGTATAAGCCTATATTT
AGGTTTTCTTTCTATTTTTTTCTCCCATTTGGATCCTTTGAGGTAAAAAACATAATGTC
TTCAGCCTCATAATAAAGGAAAGTTAATTAATAAAAAAAAAAGCAAAGAAAAAAAAAAAAA
AAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM_003507
- Insert Size:** 3100 bp
- OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
- 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_003507.1](#), [NP_003498.1](#)

RefSeq Size: 3851 bp

RefSeq ORF: 1725 bp

Locus ID: 8324

UniProt ID: [O75084](#)

Cytogenetics: 2q33.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Basal cell carcinoma, Colorectal cancer, Melanogenesis, Pathways in cancer, Wnt signaling pathway

Gene Summary: Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD7 protein contains an N-terminal signal sequence, 10 cysteine residues typical of the cysteine-rich extracellular domain of Fz family members, 7 putative transmembrane domains, and an intracellular C-terminal tail with a PDZ domain-binding motif. FZD7 gene expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly differentiated human esophageal carcinomas. [provided by RefSeq, Jul 2008]