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Product datasheet for SC117952

Frizzled 5 (FZD5) (NM_003468) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frizzled 5 (FZD5) (NM_003468) Human Untagged Clone
Tag:	Tag Free
Symbol:	Frizzled 5
Synonyms:	C2orf31; HFZ5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_003468 edited
GAATTCGGCACGAGGGAGGCAGCGCCTTCCCAAAGCAGTTTATCTTTGGACGGTTTTCTT
TAAAGGAAAAAGCAACCAACAGGTTGCCAGCCCCGGCGCCACACACGAGACGCCGGAGGG
AGAAGCCCCGGCCCGGATTCCTCTGCCTGTGTGCGTCCCTCGCGGGCTGCTGGAGGCGAG
GGGAGGGAGGGGGCGATGGCTCGGCCTGACCCATCCGCGCCGCCCTCGCTGTTGCTGCTG
CTCCTGGCGCAGCTGGTGGGCCGGGCGGCCGCCGCGTCCAAGGCCCCGGTGTGCCAGGAA
ATCACGGTGCCCATGTGCCGCGGCATCGGCTACAACCTGACGCACATGCCCAACCAGTTC
AACCACGACACGCAGGACGAGGCGGGCCTGGAGGTGCACCAGTTCTGGCCGCTGGTGGAG
ATCCAATGCTCGCCGGACCTGCGCTTCTTCCTATGCTCTATGTACACGCCCATCTGTCTG
CCCGACTACCACAAGCCGCTGCCGCCCTGCCGCTCGGTGTGCGAGCGCGCCAAGGCCGGC
TGCTCGCCGCTGATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCGACCGC
CTCCCGGTGCTGGGCCGCGACGCCGAGGTCCTCTGCATGGATTACAACCGCAGCGAGGCC
ACCACGGCGCCCCCCAGGCCTTTCCCAGCCAAGCCCACCCTTCCAGGCCCGCCAGGGGCG
CCGGCCTCGGGGGGCGAATGCCCCGCTGGGGGCCCGTTCGTGTGCAAGTGTCGCGAGCCC
TTCGTGCCCATTCTGAAGGAGTCACACCCGCTCTACAACAAGGTGCGGACGGGCCAGGTG
CCCAACTGCGCGGTACCCTGCTACCAGCCGTCCTTCAGTGCCGACGAGCGCACGTTCGCC
ACCTTCTGGATAGGCCTGTGGTCGGTGCTGTGCTTCATCTCCACGTCCACCACAGTGGCC
ACCTTCCTCATCGACATGGAACGCTTCCGCTATCCTGAGCGCCCCATCATCTTCCTGTCA
GCCTGCTACCTGTGCGTGTCGCTGGGCTTCCTGGTGCGTCTGGTCGTGGGCCATGCCAGC
GTGGCCTGCAGCCGCGAGCACAACCACATCCACTACGAGACCACGGGCCCTGCACTGTGC
ACCATCGTCTTCCTCCTGGTCTACTTCTTCGGCATGGCCAGCTCCATCTGGTGGGTCATC
CTGTCGCTCACCTGGTTCCTGGCCGCCGGCATGAAGTGGGGCAACGAGGCCATCGCGGGC
TACGCGCAGTACTTCCACCTGGCTGCGTGGCTCATCCCCAGCGTCAAGTCCATCACGGCA
CTGGCGCTGAGCTCCGTGGACGGGGACCCAGTGGCCGGCATCTGCTACGTGGGCAACCAG
AACCTGAACTCGCTGCGCGGCTTCGTGCTGGGCCCGCTGGTGCTCTACCTGCTGGTGGGC
ACGCTCTTCCTGCTGGCGGGCTTCGTGTCGCTCTTCCGCATCCGCAGCGTCATCAAGCAG
GGCGGCACCAAGACGGACAAGCTGGAGAAGCTCATGATCCGCATCGGCATCTTCACGCTG
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GAGAGCTGGGAGGCGGCGCTCACCTGCGCCTGCCCGGGCCACGACACCGGCCAGCCGCGC
GCCAAGCCCGAGTACTGGGTGCTCATGCTCAAGTACTTCATGTGCCTGGTGGTGGGCATC
ACGTCGGGCGTCTGGATCTGGTCGGGCAAGACGGTGGAGTCGTGGCGGCGTTTCACCAGC
CGCTGCTGCTGCCGCCCGCGGCGCGGCCACAAGAGCGGGGGCGCCATGGCCGCAGGGGAC
TACCCCGAGGCGAGCGCCGCGCTCACAGGCAGGACCGGGCCGCCGGGCCCCGCCGCCACC
TACCACAAGCAGGTGTCCCTGTCGCACGTGTAGGAGGCTGCCGCCGAGGGACTCGGCCGG
AGAGCTGAGGGGAGGGGGGCGTTTTGTTTGGTAGTTTTGCCAAGGTCACTTCCGTTTACC
TTCATGGTGCTGTTGCCCCCTCCCGCGGCGACTTGGAGAGAGGGAAGAGGGGCGTTTTCG
AGGAAGAACCTGTCCCAGGTCTTCTCCAAGGGGCCCAGCTCACGTGTATTCTATTTTGCG
TTTCTTACTGCCTTCTTTATGGGAACCCTCTTTTTAATTTATATGTATTTTTCTTAATTT
GTAACTTTGTTGCATTTTGGCAACAATTTACCTTTGCTTTGGGGGCTTTACAATCCTAAG
GTTGGCGTTGTAATGAAGTTCCACTTGGTTCAGGTTTCTTTGAACTGTGTGGTCTCAATT
GGGAAAATATATTTCCTATACGTGTGTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAACTCGAC

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_003468 unedited
AAAAACCCTCCCCCGCCCGTTGCCGTCTATAGGGCGGTAGCGTGTACGGTGGNGAGTCTA
TATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCG
GCCGCGAATTCGGCACGAGGGAGGCAGCGCCTTCCCAAAGCAGTTTATCTTTGGACGGTT
TTCTTTAAAGGAAAAAGCAACCAACAGGTTGCCTGCCTTGGCGCCACACACGAGACGCCG
GAGGGAGAAGCCCCGGCCCGGATTCCTCTGCCTGTGTGCGTCCCTCGCGGGCTGCTGGAG
GCGAGGGGAGGGAGGGGGCGATGGCTCGGCCTGACCCATCCGCGCCGCCCTCGCTGTTGC
TGCTGCTCCTGGCGCAGCTGGTGGGCCGGGCGGCCGCCGCGTCCAAGGCCCCGGTGTGCC
AGGAAATCACGGTGCCCATGTGCCGCGGCATCGGCTACAACCTGACGCACATGCCCAACC
AGTTCAACCACGACACGCAGGACGAGGCGGGCCTGGAGGTGCACCAGTTCTGGCCGCTGG
TGGAGATCCAATGCTCGCCGGACCTGCGCTTCTTCCTATGCTCTATGTACACGCCCATCT
GTCTGCCCGACTACCACAAGCCGCTGCCGCCCTGCCGCTCGGTGTGCGAGCGCGCCAAGG
CCGGCTGCTCGCCGCTGATGCGCCAGTACGGCTTCGCCTGGCCCGAGCGCATGAGCTGCG
ACCGCCTCCCGGTGCTGGGCCGCGACGCCGAGGTCCTCTGCATGGATTACAACCGCAGCG
AGGCCACCCACGGCGCCCCCCAGCCCTTTCCAACCAAGCCACCCTTCCAGGCCGCCAGGG
GCGCCGCCTCGGGGGCGAAAGCCCCGCTGGGGGCCCGTTCCTGTGC
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3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_003468 unedited
GTCCCATTATGNATGAGGNCACGCATACNATGATCGGTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTAAAAACCACGTTTAGGGAAATATATTTTCCCAATTGAGACCACACA
GTTCAAAAAAACCTGAACCAAGTGGAACTTCATTACAACGCCAACCTTAGGATTGTAAAG
CCCCCAAAGCAAAGGTAAATTGTTGCCAAAATGCAACAAAGTTACAAATTAAGAAAAATA
CCTATAAATTAAAAAGAGGGTTCCCATAAAGAAGGCAGTAAGAAACGCAAAATAGAATAC
ACGTGAGCTGGGCCCCTTGGAGAAAACCTGGGACAGGTTCTTCCTCGAAAACGCCCCTTT
TTCCTTTCTCCAAGTCGCCGCGGGAGGGGGCAACAGCACCATGAAGGTAAACGGAAGTGA
CCTTGGCAAAACTACCAAACAAAACGCCCCCCTCCCCTTAACTCTCCGGCCGAGTCCCTC
GGCGGGAGCCTCCTACACGTGCGACAGGGACACCTGCTTGTGGTAAGTGGCGGCGGGGCC
CGGCGGCCCGGTCCTGCCTGTGAGCCGGGGCTCGCCTCGGGGTAATCCCCTGGGGCCTGG
GGCCCCCGCTCTTGTGGCCGCGCCCGGGCGGGAACAACAACGGGTGGGGAAACCCCGCCC
CGACTCCACCGGTTTTGTCCGAACAAATTCAGAACCCCGAGGTGTTGCCCCCCACCAGGC
ACATGGAAGTACTTGGACATGGACACCCATTCCTCGGCCTTGGCCCCCGGTTGGCCCGGT
TTTTTGGCCCGGGAAGCCCCAGGTTGACCCCCCCTTCCCACTCTTTCGGGAATGCCGCCC
CTACAAGGTTGAAGGCCCCCCAAGGGTTGGGGGGGCCCGCTTTAAGCAG
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Restriction Sites: NotI-NotI

ACCN: NM_003468

Insert Size: 2500 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

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_003468.2, NP_003459.2
RefSeq Size:	2561 bp
RefSeq ORF:	1758 bp
Locus ID:	7855
UniProt ID:	Q13467
Cytogenetics:	2q33.3
Domains:	FRI, Frizzled
Protein Families:	Druggable Genome, GPCR, 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 FZD5 protein is believed to be the receptor for the Wnt5A ligand. [provided by RefSeq, Jul 2008]