

Product datasheet for SC126838

WNT5A (NM_003392) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT5A (NM_003392) Human Untagged Clone
Tag:	Tag Free
Symbol:	WNT5A
Synonyms:	hWNT5A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126838 sequence for NM_003392 edited (data generated by NextGen Sequencing)

ATGAAGAAGTCCATTGGAATATTAAGCCCAGGAGTTGCTTTGGGGATGGCTGGAAGTGCA
ATGTCTTCCAAGTTCTTCTAGTGGCTTTGGCCATATTTTCTCCTTCGCCAGGTTGTA
ATTGAAGCCAATTCTTGGTGGCTAGGTATGAATAACCCTGTTCAAGTGTGAGAGTA
TATATTATAGGAGCACAGCCTCTCTGCAGCCAAGTGGCAGGACTTTCTCAAGGACAGAAG
AAACTGTGCCACTTGTATCAGGACCACATGCAGTACATCGGAGAAGGCGCGAAGACAGGC
ATCAAAGAATGCCAGTATCAATTCGACATCGAAGGTGGAAGTGCAGCACTGTGGATAAC
ACCTCTGTTTTTGGCAGGGTGATGCAGATAGGCAGCCGCGAGACGGCCTTCACATACGCG
GTGAGCGCAGCAGGGGTGGTGAACGCCATGAGCCGGGCGTGCCGCGAGGGCGAGCTGTCC
ACCTGCGGCTGCAGCCGCGCCGCGGCCCAAGGACCTGCCGCGGACTGGCTCTGGGGC
GGCTGCGGCGACAACATCGACTATGGCTACCGCTTTGCCAAGGAGTTCGTGGACGCCCGC
GAGCGGGAGCGCATCCACGCCAAGGGCTCCTACGAGAGTGCTCGCATCCTCATGAACCTG
CACAACAACGAGGCCGCGCCGAGGACGGGTGTACAACTGGCTGATGTGGCTGCAAGTGC
CATGGGGTGTCCGGCTCATGTAGCCTGAAGACATGCTGGCTGCAGCTGGCAGACTTCCGC
AAGGTGGGTGATGCCCTGAAGGAGAAGTACGACAGCGCGCGGCCATGCGGCTCAACAGC
CGGGGCAAGTTGGTACAGGTCAACAGCCGCTTCAACTCGCCACCACACAAGACCTGGTC
TACATCGACCCAGCCCTGACTACTGCGTGCGCAATGAGAGCACCAGGCTCGCTGGGCACG
CAGGGCCGCTGTGCAACAAGACGTGCGAGGGCATGGATGGCTGCGAGCTCATGTGCTGC
GGCCGTGGCTACGACCAAGTTCAAGACCGTGCAGACGAGCGCTGCCACTGCAAGTTCCAC
TGGTGCTGCTACGTCAAGTGCAAGAAGTGCACGGAGATCGTGGACCAGTTGTGTGCAAG
TAG

Clone variation with respect to NM_003392.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003392 unedited GACCGTCCCCCAGGCTTAACCCGGTCGCTCCGCTCGGATTCTCGGCTGCGCTCGCTCG GGTGGCGACTTCTCCCCGCGCCCCCTCCCCCTCGCCATGAAGAAGTCCATTGGAATATT AAGCCCAGGAGTTGCTTTGGGGATGGCTGGAAGTGCAATGTCTTCCAAGTTCTTCCTAGT GGCTTTGGCCATATTTTTCTCTTCGCCAGGTTGTAATTGAAGCCAATTCTTGGTGGTC GCTAGGTATGAATAACCTGTTTCAGATGTCAGAAGTATATATTATAGGAGCACAGCCTCT TCTGCAGCCAAGTGGCAGGACTTTCTCAAGGACAGAAGAACTGTGCCACTTGTATCAAG ACCACATGCAGTACATCCGGAGAAGGCGGAAGACCGGCATCANANAATGCCAGTATCAA TTCCNACATCCGAANGTGAAGTGCAGCACTGGGGATAACACCTCCTGTTTTTTGGCAGG GTGATGCACATAAGCCAGCCGNGANACGGCCTTTNCATACNCCGTGANGCGCAANAGGGG TGGGNGAACNCCNTTNAACCGNGCCGTGCCNCCNAGGGCNAACCTGTCCCCCTTGCAGNT GNCANCCGCGGCCGNNCCCCCAAGNNCTGCCCGGAACTGGTTTTTGGTNGGNTTGT GNGCGACCACATCCACTATGGNGTCCGCTTTGCCAAGAAGTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003392 unedited GGGGTTTATTAGTTACGTGGCCGAATCGGGTTTNGTTTTTAATCTTTTTTTTTGATAA AATGATTTTATTAGGAAAAGTACAAGATATGAACAAAAATAAATAATCTTTATCTCATT CTAGCCCAGCAAATTGTACACTGCATATAAAAATGGTCTAAGATGCAAGTTTCTCCATT CCTTTTTTGCTTTTAAAAACTGAGACAGCATTTCATTCAATATTCTAGTTCAAAGT ATACATTAATAAAAAATCATACCAACCTTTAATCATTCTACATCCATTTTTTAAAGTTAG CTAACACGATGATGTTTCACTAAAATAAAATATCCAATCATCAGATTAAAGTGTAAGTT TGCGTGAAACAGGGAATTACATCATTGCTCTAAGTTTTAATTCCTATGTTTCTGAATGTT TTTTGAATTAATAATTCATTTTCATCTTACTTTCCAAACACGGTTCTCTCTTTCACC ATTCCACAGAGAGAGAAAAGACTAGAAAATACTTTAAAAAAAATAATTATTTCAAAGTA TTACTTACAGTGACCATCGGACACTTTTAGACTCGTGCCTTTGTGCCCATTTGCATTAAAC TGGCTGCTTCATGTCCTACTACCCCTTCTATCTCTTCCATTTATTCCGGGCCCCCAAGT GCCTCGTAGAATGAGGCTGATAACGATTCTTCGCGAGCCAGCTCTTACTCGGCCTTTTAA TGAAGCAGATTTACCTCTGGCTTCGCGCGGAACGACGGATACGTCCAGGGGGTTTCGACC CGCTTCGCCCAACCTCCATTAAACGCCGGGGCTTTGGCCACGTTTTTCTAGGCCAACGAT TCCCGGAGCGGACCGGAGAGCCNACCCCCGGTGGCCACCCGGGGGCGGGGCCCGCCA CCACACCCCCCCCCACCCACACA
Restriction Sites:	NotI-NotI
ACCN:	NM_003392
Insert Size:	6000 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_003392.3 , NP_003383.2
RefSeq Size:	5855 bp
RefSeq ORF:	1143 bp
Locus ID:	7474
UniProt ID:	P41221
Cytogenetics:	3p14.3
Domains:	wnt
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Gene Summary:	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.