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Product datasheet for RG209206

WNT5A (NM_003392) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WNT5A (NM_003392) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNT5A
Synonyms:	hWNT5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG209206 representing NM_003392
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGTCCATTGGAATATTAAGCCCAGGAGTTGCTTTGGGGATGGCTGGAAGTGCAATGTCTTCCA
AGTTCTTCCTAGTGGCTTTGGCCATATTTTTCTCCTTCGCCCAGGTTGTAATTGAAGCCAATTCTTGGTG
GTCGCTAGGTATGAATAACCCTGTTCAGATGTCAGAAGTATATATTATAGGAGCACAGCCTCTCTGCAGC
CAACTGGCAGGACTTTCTCAAGGACAGAAGAAACTGTGCCACTTGTATCAGGACCACATGCAGTACATCG
GAGAAGGCGCGAAGACAGGCATCAAAGAATGCCAGTATCAATTCCGACATCGAAGGTGGAACTGCAGCAC
TGTGGATAACACCTCTGTTTTTGGCAGGGTGATGCAGATAGGCAGCCGCGAGACGGCCTTCACATACGCG
GTGAGCGCAGCAGGGGTGGTGAACGCCATGAGCCGGGCGTGCCGCGAGGGCGAGCTGTCCACCTGCGGCT
GCAGCCGCGCCGCGCGCCCCAAGGACCTGCCGCGGGACTGGCTCTGGGGCGGCTGCGGCGACAACATCGA
CTATGGCTACCGCTTTGCCAAGGAGTTCGTGGACGCCCGCGAGCGGGAGCGCATCCACGCCAAGGGCTCC
TACGAGAGTGCTCGCATCCTCATGAACCTGCACAACAACGAGGCCGGCCGCAGGACGGTGTACAACCTGG
CTGATGTGGCCTGCAAGTGCCATGGGGTGTCCGGCTCATGTAGCCTGAAGACATGCTGGCTGCAGCTGGC
AGACTTCCGCAAGGTGGGTGATGCCCTGAAGGAGAAGTACGACAGCGCGGCGGCCATGCGGCTCAACAGC
CGGGGCAAGTTGGTACAGGTCAACAGCCGCTTCAACTCGCCCACCACACAAGACCTGGTCTACATCGACC
CCAGCCCTGACTACTGCGTGCGCAATGAGAGCACCGGCTCGCTGGGCACGCAGGGCCGCCTGTGCAACAA
GACGTCGGAGGGCATGGATGGCTGCGAGCTCATGTGCTGCGGCCGTGGCTACGACCAGTTCAAGACCGTG
CAGACGGAGCGCTGCCACTGCAAGTTCCACTGGTGCTGCTACGTCAAGTGCAAGAAGTGCACGGAGATCG
TGGACCAGTTTGTGTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

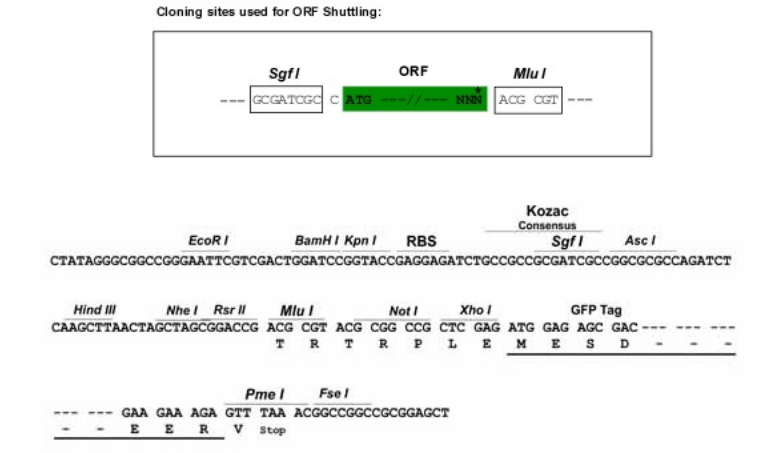
>RG209206 representing NM_003392
Red=Cloning site Green=Tags(s)

MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVIEANSWWSLGMNNPVQMSEVYIIGAQPLCS
QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYA
VSAAGVVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS
YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNS
RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTV
QTERCHCKFHWCCYVKCKKCTEIVDQFVCK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003392

ORF Size: 1140 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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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_003392.7
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]

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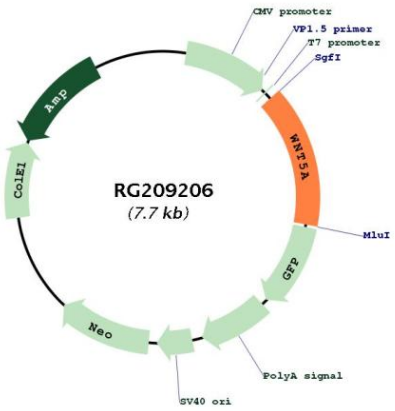
Product images:



Circular map for RG209206

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