

## **Product datasheet for RG202575**

## WNT6 (NM\_006522) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** WNT6 (NM\_006522) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: WNT6

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG202575 representing NM\_006522

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGCCGCCCTTACCCTCCGGCCTCGGGCTGCTGCTGCTGCTCCTGTGCCCGGCGCACGTCGGCG GACTGTGGTGGGCTGTGGCCAGCCCTTGGTTATGGACCCTACCAGCATCTGCAGGAAGGCACGGCGGCT CTCGGGGTGCGAGAGTGCCAGTTCCAGTTCCGCTTCCGCCGCTGGAATTGCTCCAGCCACAGCAAGGCCT GCCCTCCCGGCCCTCCGGCCTGCCCGGCACCCCCGGACCCCCTGGCCCCGCGGGCTCCCCGGAAGGCA GCGCCGCCTGGGAGTGGGGAGGCTGCGGCGACGACGTGGACTTCGGGGACGAGAAGTCGAGGCTCTTTAT GGACGCACGGCACAAGCGGGGACGCGGAGACATCCGCGCGTTGGTGCAACTGCACAACAACGAGGCGGGC AGGCTGGCCGTGCGGAGCCACACGCGCACCGAGTGCAAATGCCACGGGCTGTCGGGATCATGCGCGCTGC GCACCTGCTGGCAGAAGCTGCCTCCATTTCGCGAGGTGGGCGCGCGGCTGCTGGAGCGCTTCCACGGCGC CTCACGCGTCATGGGCACCAACGACGGCAAGGCCCTGCTGCCCCGCCGTCCGCACGCTCAAGCCGCCGGGC CGAGCGGACCTCCTCTACGCCGCCGATTCGCCCGACTTCTGCGCCCCCAACCGACGCACCGGCTCCCCCG GCACGCGCGGTCGCGCCTGCAATAGCAGCGCCCCGGACCTCAGCGGCTGCGACCTGCTGTGCTGCGGCCG CGGGCACCGCCAGGAGAGCGTGCAGCTCGAAGAGAACTGCCTGTGCCGCTTCCACTGGTGCTGCGTAGTA CAGTGCCACCGCTGCCGTGTGCGCAAGGAGCTCAGCCTCTGCCTG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202575 representing NM\_006522

Red=Cloning site Green=Tags(s)

MLPPLPSRLGLLLLLLCPAHVGGLWWAVGSPLVMDPTSICRKARRLAGRQAELCQAEPEVVAELARGAR LGVRECQFQFRFRRWNCSSHSKAFGRILQQDIRETAFVFAITAAGASHAVTQACSMGELLQCGCQAPRGR APPRPSGLPGTPGPPGPAGSPEGSAAWEWGGCGDDVDFGDEKSRLFMDARHKRGRGDIRALVQLHNNEAG RLAVRSHTRTECKCHGLSGSCALRTCWQKLPPFREVGARLLERFHGASRVMGTNDGKALLPAVRTLKPPG RADLLYAADSPDFCAPNRRTGSPGTRGRACNSSAPDLSGCDLLCCGRGHRQESVQLEENCLCRFHWCCVV QCHRCRVRKELSLCL

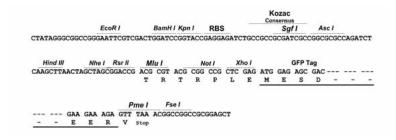
SGPTRTRRLE - GFP Tag - V

**Restriction Sites:** 

Sgfl-RsrII

**Cloning Scheme:** 





**ACCN:** NM\_006522

ORF Size: 1095 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).



**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:** <u>NM 006522.1</u>

RefSeq Size: 1700 bp

RefSeq ORF: 1098 bp
Locus ID: 7475
UniProt ID: Q9Y6F9
Cytogenetics: 2q35
Domains: wnt

Protein Families: Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell

relevant signaling - Wnt Signaling pathway, Transmembrane

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

signaling pathway

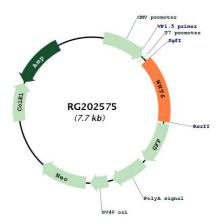
**Gene Summary:** The WNT gene family consists of structurally related genes which encode secreted signaling

proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It is overexpressed in cervical cancer cell line and strongly coexpressed with another family member, WNT10A, in colorectal cancer cell line. The gene overexpression may play key roles in carcinogenesis. This gene and the WNT10A gene are clustered in the chromosome 2q35 region. The protein encoded by this gene is 97% identical

to the mouse Wnt6 protein at the amino acid level. [provided by RefSeq, Jul 2008]



## **Product images:**



Circular map for RG202575