

## Product datasheet for **RG224816**

### WNT8A (NM\_058244) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WNT8A (NM_058244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WNT8A
Synonyms:	WNT8D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224816 representing NM_058244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACCTGTTTATGCTCTGGGCAGCTCTGGGCATATGCTGTGCTGCATTCACTGCCTCTGCCTGGT  
CAGTGAACAATTCCTGATAACAGGTCCCAAGGCTATCTGACCTACACGACTAGTGTGGCCTTGGGTGC  
CCAGAGTGGCATCGAGGAGTGCAAGTCCAGTTTGCTTGGGAACGCTGGAAGTCCCTGAAAATGCTCTT  
CAGCTCTCCACCACAACAGGCTGAGAAGTGTACCAGAGAGACTTCTTCATACATGCTATCAGCTCTG  
CTGGAGTCATGTACATCATCACAAGAAGTGTAGCATGGGTGACTCGAAAAGTGTGGCTGTGATGGGTC  
AAACAATGAAAAACAGGAGGCCATGGCTGGATCTGGGGAGGCTGCAGCGACAATGTGGAATTTGGGGAA  
AGGATCTCCAAACTCTTTGTGGACATTTGGAGAAGGGGAAGGATGCCAGAGCCCTGATGAATCTTCACA  
ACAACAGGGCCGGCAGACTGGCAGTGAGAGCCACCATGAAAAGGACATGCAAATGTGATGGCATCTCTGG  
GAGCTGCAGCATACAGACATGCTGGCTGCAGCTGGCTGAATTCGGGAGATGGGAGACTACCTAAAGGCC  
AAGTATGACCAGGCGCTGAAAATTGAAATGGATAAAGCGGCAGCTGAGAGCTGGGAACAGCGCCGAGGGCC  
ACTGGGTGCCCGCTGAGGCCTTCCTTCTAGCGCAGAGGGCAACTGATCTTTTTAGAGGAATCACCAGA  
TTACTGTACCTGCAATTCAGCCTGGGCATCTATGGCACAGAGGGTCGTGAGTGCCTACAGAACAGCCAC  
AACACATCCAGGTGGGAGCGACGTAGCTGTGGCGCCTGTGCACAGTGTGGGTCGAGGTGGAAGAGA  
GGAAAAGTGAAGTATAAGCAGCTGTAAGTCAAATTCAGTGGTGTGACGGTCAAGTGTGACCAAGT  
TAGGCATGTGGTGAAGCAAGTATTACTGCGCACGCTCCCCAGGCGAGTCCCGAGTCCCTGGGTAAAGGCGAGT  
GCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224816 representing NM\_058244  
 Red=Cloning site Green=Tags(s)

MGNLFMLWAALGICCAAFSASAWSVNNFLITGPKAYLTYTTSVALGAQSGIEECKFQFAWERWNCPENAL  
 QLSTHNRLRSATRETSFIHAISSAGVMYIITKNCSMGDFENCDCGSDNNGKTGGHGWIIWGGCSDNVEFGE  
 RISKLFVDSLEKGDARALMNLHNNRAGRLAVRATMKRTCKCHGISGSCSIQTCWLQLAEFREMGDYLKA  
 KYDQALKIEMDKRQLRAGNSAEGHWVPAEAFLPSEAEELIFLEESPDYCTCNSSLGIYGTGRECLQNSH  
 NTSRWERRSCGRCLCTEGLQVEERKTEVISSCNCKFQWCCTVKCDQCRHVVSKYYCARSPGSAQSLGKGS  
 A

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_058244

**ORF Size:** 1053 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:** [NM\\_058244.3](#)

**RefSeq Size:** 1899 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 7478

**UniProt ID:** [Q9H1J5](#)

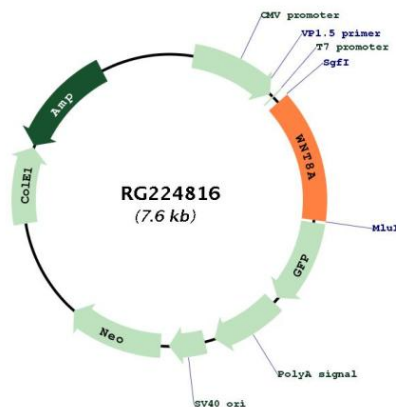
**Cytogenetics:** 5q31.2

**Protein Families:** Cancer stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, 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 is a member of the WNT gene family, and may be implicated in development of early embryos as well as germ cell tumors. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2014]

## Product images:



Circular map for RG224816