

Product datasheet for **RG205256**

WIF1 (NM_007191) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WIF1 (NM_007191) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: WIF1
Synonyms: WIF-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205256 representing NM_007191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGAGGAGCGCCTTCCCTGCCGCCGCGCTCTGGCTCTGGAGCATCCTCCTGTGCCTGCTGGCAC
 TGCGGGCGGAGGCCGGCCGCCGAGGAGAGCCTGTACCTATGGATCGATGCTCACCAGGCAAGAGT
 ACTCATAGGATTTGAAGAAGATATCCTGATTGTTTCGGAGGGGAAAATGGCACCTTTACACATGATTTT
 AGAAAAGCGCAACAGAGAATGCCAGCTATTCCTGTCAATATCCATTCCATGAATTTTACCTGGCAAGCTG
 CAGGGCAGGCAGAATACTTCTATGAATTCCTGTCTTGGCTCCCTGGATAAAGGCATCATGGCAGATCC
 AACCGTCAATGTCCCTCTGCTGGGAACAGTGCCTCACAAGGCATCAGTTGTTCAAGTTGGTTTCCCATGT
 CTTGAAAAACAGGATGGGGTGGCAGCATTTGAAGTGGATGTGATTGTTATGAATTCTGAAGGCAACACCA
 TTCTCAAAACACCTCAAAATGCTATCTTCTTTAAAACATGTCAACAAGCTGAGTGCCAGGGGGTGGCCG
 AAATGGAGGCTTTTGTAAATGAAAGACGCATCTGCGAGTGTCTGATGGGTTCCACGGACCTCACTGTGAG
 AAAGCCCTTTGTACCCACGATGTATGAATGGTGGACTTTGTGTGACTCCTGGTTTCTGCATCTGCCAC
 CTGGATTCTATGGAGTGAAGTGTGACAAAGCAAAGTGTCAACCACCTGCTTTAATGGAGGGACCTGTTT
 CTACCCCTGGAAAATGATTTGCCCTCCAGGACTAGAGGGAGAGCAGTGTGAAATCAGCAAATGCCACAA
 CCCTGTGCGAAATGGAGGTAATGCATTGGTAAAAGCAAATGTAAGTGTTCCAAAGGTTACCAGGGAGACC
 TCTGTTCAAAGCCTGTCTGCGAGCCTGGCTGTGGTGCACATGGAACCTGCCATGAACCCAAACAAATGCCA
 ATGTCAAGAAGGTTGGCATGGAAGACACTGCAATAAAAGGTACGAAGCCAGCCTCATACATGCCCTGAGG
 CCAGCAGGCGCCAGCTCAGGCAGCACAGCCTTCACTTAAAAGGCCGAGGAGCGGGATCCACCTG
 AATCCAATTACATCTGG

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205256 representing NM_007191
 Red=Cloning site Green=Tags(s)

MARRSAFPAAALWLSILLCLLALRAEAGPPQEESLYLWIDAHQARVLIGFEEDILIVSEGKMAPFTHDF
 RKAQQRMPAIPVNIHSMNFTWQAAGQAEYFYEFLLSLRSLDKGIMADPTVNVPLLGTVPHKASVVQVGFPC
 LGKQDGVAAFEVDVIVMNSEGNTILKTPQNAIFFKTCQQAECPPGCRNGGFCNERRICECPDGFHGPHE
 KALCTPRCMNGGLCVTPGFCICPPGFYGVNCDKANCSTTCFNGGTCFYPGKCICPPGLEGEQCEISKCPQ
 PCRNGGKCI GKSKCKSKGYQGDLCSKPVCEPGCGAHTCHEPNKCQCQEGWHGRHCNKRYEASLIHALR
 PAGAQLRQHTPSLKKAEERRDPPESNYIW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007191

ORF Size: 1137 bp

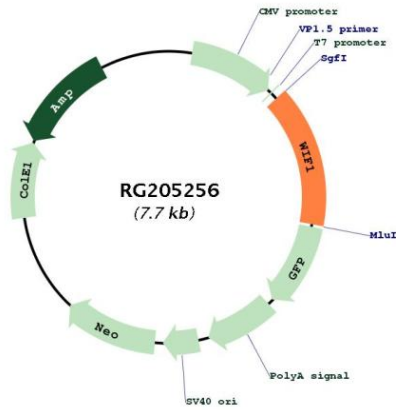
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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:	<ol style="list-style-type: none">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_007191.3, NP_009122.2</u>
RefSeq Size:	2026 bp
RefSeq ORF:	1140 bp
Locus ID:	11197
UniProt ID:	<u>Q9Y5W5</u>
Cytogenetics:	12q14.3
Domains:	WIF, EGF, EGF
Protein Families:	Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Wnt signaling pathway
Gene Summary:	The protein encoded by this gene functions to inhibit WNT proteins, which are extracellular signaling molecules that play a role in embryonic development. This protein contains a WNT inhibitory factor (WIF) domain and five epidermal growth factor (EGF)-like domains, and is thought to be involved in mesoderm segmentation. This gene functions as a tumor suppressor gene, and has been found to be epigenetically silenced in various cancers. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG205256