

Product datasheet for **RG227196**

ZNF814 (NM_001144989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF814 (NM_001144989) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF814
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227196 ORF sequence, **codon optimized**.
Due to the complexity of NM_001144989, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCAGCTGCCCAACTCTGAGGCTGAGCGCTCAGGGAACCGTGACATTTGAAGACGTAGCAGTGAAC
 TTACCTGGGAAGAATGGAACCTGCTGTGAGAAGCACAGCGGTGCCTGTACAGAGATGTGACGCTGGAGAA
 CCTGGCCCTTATTAGCTCCCTCGGCTGCTGGTGGCGCGTAGAGGACGAGGCCGCCCTAGCAAACAGTCA
 ATATACATCCAAAGGGAGACACAGGTAAGAAGTCCAATGGCCGGCGTGTCCCAAAAAAGCCCATCCAT
 GCGAGATGTGCGGCCGATACTGGGGGACATACTTCATGTGGCGGACCATCAAGGAACTCATCACAACA
 AAAGCTTCATCGGTGTGAGGCTTGGGGTAATAAATTTATGACAGTGGGAACCTTCATCAGCACCAGAAT
 GAACATATCGGCGAAAAACCATACAGGGGAAGTGTGAAAGAGCGCTGTTTGCAAGAGATGCAAGCTCC
 ATGTAAGCGGCGAGTCATCTGTGTTTAGCGAGTCAGGAAAAGACTTTCTGCTCGGTCTGGGCTCCTCCA
 GCAGGAAGCATCTCACTGGAGAAAAGTCCAATTCAAAGACAGAATGTGTCTCTCCAATCCAATGTGGA
 GGGGCCACTATAGCTGCGGTGAATCTATGAAACACTTTTCTACTAAACATATCTTGAGTCAGCACCAAC
 GACTGTTGACGCGGAAGAGTGTACGTTTGTGCGAGTGGCGCAATCTTTTCTAAGTACGCGAGCCT
 GTCCAACCATCAGCGGTTCACTACTGAAAAAAGCACAGTGTGGAGAGTGGCGCAAGTCAATTTTCCAAG
 TATGTCTCCTTCAGTAACCAACAGAGGGTGCACACAGAAAAAAGCACGAATGTGGGAGTGGGAAAAA
 GTTTTAGTAAGTATGTTAGTTTTTCCAATCACCAGCGAGTGCACACGGGAAAGCGCCATATGAGTGGCG
 TGAATGCGGAAAGTCTTCTCCAATACGCCAGTTTTAGCAACCATCAACGAGTCCACACTGAGAAAAA
 CACTATGAGTGGCGGAGTGTGGGAAATCCTTCAGCAAAATATGTCTCCTTCAGCAACCATCAGCGCGTGC
 ATACTGGGAAAAGACCATACGAATGCGGGGAATGCGGCAAGAGTTTTTCCAATACGCTTCTTTCAGTAA
 TCATCAGAGGGTCCATACCGAAAAAGCACTATGAGTGTGGCGAATGTGGCAAGAGCTTTTCTCAGAAG
 AGCTCCCTGATACAGCACCAGCGGTTTCATACAGGTGAAAAACCGTATGGTTGCGAGGAATGCGGCAAGT
 CTTTCAGTGTGAGGACATCTGCGAAGCCACCAGCGCTCCACGCTGGCGAGCGCCATCAAATGCGG
 AGAATGCGTCAAAGCTTCAGCCATAAGCGATCCTTGGTGACACCACAAAGAGTGCATTCGGGGGAGCGG
 CCTTATCAGTGGCGGAGTGGGGAAGTATTCTCACAGAAGGGAAATCTTGTGCTGCACCAGAGAGTCC
 ATACAGGGGCACGCCCTTACGAGTGTGGTGTGAGTGGGGAAGTATTCTCATCAAAGGGCACCTCCGCAA
 CCACCAGCAGATCCACACCGGTGATCGCCTTATGAGTGGGAGAATGTGGAAAACTTCTCCACAAA
 GGGACGCTCATCTGCACAAAGAGTCCATCCCAGGGAACGATCCTATGGTTGCGGGGAATGTGGAAAGA
 GCTTCTCTAGTATAGGCCATCTTCGCTCCCATCAGCGGTTTACACCGGCGAGCGCCCTACGAGTGGCG
 TGAGTGTGGAAAGAGCTTCTCTACAAGAGTCCCTGGTGCATCATCAGAGGATGCACACCGGAGAGCGCA
 CCATATAAGTGTGGAGACTGTGGCAAGTCAATTAACGAAAAAGGGCATCTGCGGAACACCAGCGGTAC
 ATACCACGAAAGACCTTTAAATGTGGCGAATGTGGCAAGTGTTTAGTCAAGGGTAATCTTATTCT
 CCATCAGCATGGGCATACGGGGGAGAGGCCCTACGTCTGCCGCGAGTGGGAAAACTGTTCAAGAAAAA
 AGCCATTTGTTGGTGCACCAGCGAATCCACAATGGAGAAAAACCTACGCATGCGAGGCGTGTGAGAAGT
 TTTTTAGAAACAATACCAGCTTATCGCACACCAACGGGTCCACACAGGCGAGAGGCCATACGAATGTAA
 CGATTGCGGGAAGAGCTTACTCATAGTACACCTTCTGTGTGCACAAAAGGATTCATACCGGAGAAAAAG
 CCTTATGAATGCTCTGAATGCGGCAAGAGTTTTGCGGAGAGCTCCTCATTCACTAAGCACAAGCGGGTTC
 ACACGGGGGAAAAACCATATGAGTGCAGTGTGCGGCAAGAGTTTTGCTGAGAGCTCATCTGACGAA
 ACATAACGGGTCCACACCGGAGAAAAACCTTATAAATGTGAAAAATGTGAAAACTCTTAATAAAAAA
 AGCCATCTTTTGGTGCATCAGTCATCTCATTGGCGGAAGGCAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG227196 representing NM_001144989
 Red=Cloning site Green=Tags(s)

MAAAATLRLSAQGTVTTFEDVAVNFTWEEWNLSEAQRCLYRDVTLENLALISSLGWCWCGVEEAAPSKQS
 IYIQRETQVRTPMAGVSPKKAHPCEMCGPILGDILHVADHQGTHHKQKLHRCEAWGNKLYDSGNFHQHQ
 EHI GEKPYRGSVEEALFAKRCKLHVSGESSVFSSESGKDFLPRSGLLQQEASHTGEKSNKTECVSPIQCG
 GAHYSCGESMKHFSTKHILSQHQRLLTREECYVCECGKSF SKYASLSNHQRVHTEKKHECGECGKSF SK
 YVSFSNHQRVHTEKKHECGECGKSF SKYVSFSNHQRVHTGKRPYECGECGKSF SKYASFNSHQRVHT
 HYECGECGKSF SKYVSFSNHQRVHTGKRPYECGECGKSF SKYASFNSHQRVHTDKKHIECGECGKSF
 SSKLQHQRFHTGEKPYGCEECGKSF SSEGHLRSHQRVHAGERPFKCGECVKSF SHKRSLVHHQRVHSGER
 PYQCGECGKSF SQKGNLVLHQRVHTGARPYECGECGKSF SSKGHLRNHQIHTGDRLYECGECGKSF SHK
 GTLILHQRVHPRERSYCGECGKSF SSIHGLRSHQRVHTGERPYECGECGKSF SHKRSLVHHQRMHTGER
 PYKCGDCGKSF NEKGHLRNHQRVHTTERPFKCGECGKCF SHKGNLILHQHGHTGERPYVCRECGKLFKKK
 SHLLVHQRIHNGEKPYACEACQFFRNKYQLIAHQRVHTGERPYECNDCGKSF THSSTFCVHKRIHTGEK
 PYECSECGKSF AESSSTKHKRVHTGEKPYECSECGKSF AESSSLTKHKRVHTGEKPYKCEKCGKLFNKK
 SHLLVHQSSHWKAI

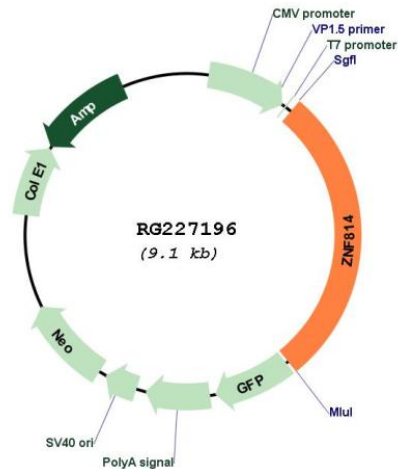
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001144989

ORF Size: 2565 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_001144989.1](#), [NP_001138461.1](#)

RefSeq Size: 6244 bp

RefSeq ORF: 2568 bp

Locus ID: 730051

UniProt ID: [B7Z6K7](#)

Cytogenetics: 19q13.43