

Product datasheet for **RG216047**

ZNF813 (NM_001004301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF813
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216047 ORF sequence, codon optimized.

Due to the complexity of NM_001004301, 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
GCCGCGATCGCC

ATGGCCCTCCACAAAGGACTCTTGACTTTCCGAGACGTAGCTATCGAGTTCTCTCAAGAAGAGTGGAAGT
GTCTGGACCCAGCCAGCGGACATTGTACCGGGATGTGATGCTGGAGAACTACCGCAATCTGGTGAAGTCT
CGACATTTCTCCTCAAAATGTATGATGAAGGAATTACGCTCCACCGCTCAGGGAACCGGGAGGTGATTCAT
ACCGGAACACTGCAGCGGCACGAGTCCACCACACAGGCGATTTTCGTTTCAGGAAATTGACAAGGACA
TCCACAATCTGGAATTCAGTGGCAGGAGGACGAGAGGAACTCCACGAGGCCCCATGACAGAGATTAA
GAAGCTGACTGGGTGAGCAGATAGATATGATCAGAGACATGCCGGTAACAAGCCTATCAAAGACCAGCTG
GGCTCTTTCTTCCACTCACACTTGGCGGAGCTGCATATGTTCCAGACTCAGGGAAGATTGGCAATCAGG
TAGAGAAAAGCATAAAGCATGCCAGCTCCATCTCAACAGTCAGCGGATCAGTTGTGCGGCTAAGACACA
TATCTCCAACAATTATGGAACAACCTTCCGGAATTCTTCTCTGTTGACTCAGAAGCAGGAGGTGCATG
CGAGAGAAGTCCTTCCAATGTAAAGTCCGGAAGGCTTTTAACTACAGCAGTTTGCTTCGGAACATC
AGATCATTCACCTCGGAGAGAAGCAGTACAAATGCGATGTTTGTGGGAAAGTCTTCAACCGGAAGCGGAA
TCTGGTTTGTATAGCGGTGTACACAGGTGAAAAGCCATACCGATGCAACGAGTGTGGCAAGACATTC
TCACAGACTTACAGCCTTACCTGTACACCGCGGCTCCACACCGGTGAGAAACCTATAAGTGCGAAGAGT
GTGATAAGGCCTTCTCTTTAAGAGTAACCTCAAGCGGCATAGGAGAATCCACGCTGGAGAGAAGCCATA
TAAATGCAATGAATGCGGAAAAACGTTCTCCAAACCTCTTCACTGACATGTACAGCGGCTGCACACT
GGAGAAAAGCCTTTCAAGTGAATGAATGCGGCAAGACATTCAGTCGGAAGTCTAGCCTGACTTGCCACC
ACCGACTGCACACCGGTGAGAAACCTTACAAGTGTAAAGTGAATGCGGCAAGACTTTCTCCCAAGAACTAC
CTTGAAATGTACAGACGACTTACATACGGGCGGAGAAACCGTACAAATGAATGAATGCGGAAAAGTATTC
AACAAGAAAGCAAACTTGGCGCGGCAACCGACTGCACCTCGGGGAGAAACCTATAAATGTACTGAGT
GCGTGAAGAACATTAGTCGGAACAGCGCTCTTGATCCACAAGGCTATCCACATCGCGGAGAAAAGGTA
CAAATGCAATGAATGTGGGAAGACCTTCTCAAGGATATCAGCACTGGTTATTCATACCGCTATCCATACA
GGAGAGAAGCCTTACAAGTGAACGAATGCGGGAAGGATTTAACAGGAAGACTCATCTGGCGTGTACAC
ACCGGCTCCACACGGGCGAAAAACCTATAAGTGAATGAGTGTGGCAAGTATTTAATAGAAAGACTCA
CCTCGCTCATCATACCGCCTGCACACGGCGCAAAACCATATAAGTGAATGAGTGTGGGAAAAGTCTTT
AACCAGAAGGCACACCTGGCCAGGCATCACAGGCTGCATACCGGCGAGAAACCATATAAATGCAACGAAT
GCGGCAAAAGTGTCAACCAAAAAGTAACCTGGCAAGGCACCATCGGCTTCACACCGGAGAGAAACCTTA
TAAGTTCAACGAATGCGGAAAGGCATTCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216047 representing NM_001004301

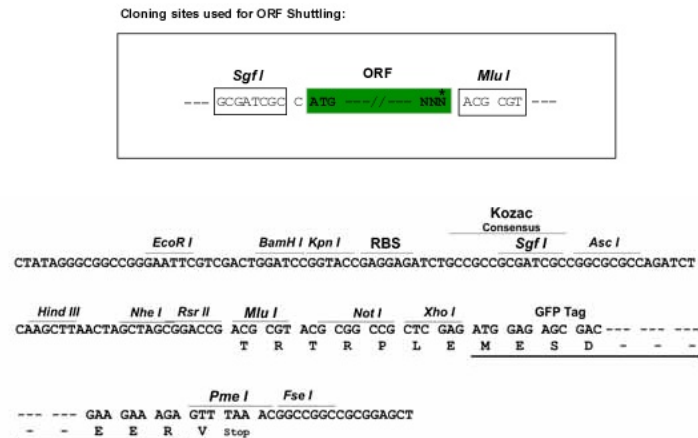
Red=Cloning site Green=Tags(s)

MALPQGLLTFRDVAIEFSQEWEKCLDPAQRTLYRDVMLENYRNLVSLDISSKMMKEFSSTAQGNREVIH
TGTLQRHESHHTGDFRFQEIHKDIHNLFWQEDERNSEAPMTEIKKL TGSADRYDQRHAGNKPDKQL
GSSFHSHLPHELHMFQTQKIGNQVEKSINDASSISTSQRISCRPKTHISNNYGNFRNSLLTQKQEVHM
REKSFQCNESGKAFNYSSLLRKHQIHLGEKQYKCDVCGKVFNRKRNLVCHRRCHTGEKPYRCNECGKTF
SQTYSLTCHRRLHTGEKPYKCECDKAFSFKSNLKRHRIHAGEKPYKNECGKTFSTSSLTCHRRLHT
GEKPFKNECGKTFSRKSSLTCHRRLHTGEKPYKNECGKTFSQELTLKCHRRLHTGEKPYKNECGKVF
NKKANLARHRLHSGEKPYKCTECVKTFSRNSALVIHKAHIGEKRYKNECGKTFSRISALVIHTAIHT
GEKPYKNECGKGFNRKTHLACHHRLHTGEKPYKNECGKVFNRKTHLAHHRLHTGDKPYKNECGKVF
NQKAHLARHRLHTGEKPYKNECGKVFNRKTHLAHHRLHTGEKPYKNECGKAFN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004301

ORF Size: 1851 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:

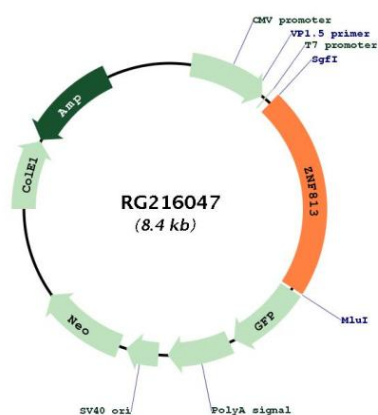
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001004301.3](#), [NP_001004301.2](#)

RefSeq Size:	4188 bp
RefSeq ORF:	1854 bp
Locus ID:	126017
UniProt ID:	Q6ZN06
Cytogenetics:	19q13.42
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216047