

Product datasheet for **RG228413**

ZNF727 (NM_001159522) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF727
Synonyms:	ZNF727P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG228413 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001159522, 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

ATGCGGGTATTGACCTTCGGGACGTGCGCGTGAATTTTCTCCTGAGGAGTGGGAGTGTCTGGATTCCG
 CTCAACAAAGACTGTACAGGGACGTGATGCTGGAGAATTACGGAACCTTGTTCAGCCTGGGGCTCGCTAT
 TTTCAAGCCCGACCTTATCACCTACCTCGAGCAGAGAAAGGAACCGTGAACGCAAGAAGGCAGAAGACT
 GTGGCTAAGCACCCCGCAGGAAGCCTCCACTTTACCGCCGAAATCTGCTTGAGCACGACATCAACGACT
 CTTTTCAAAAGGTGATTCTTAGAAAATCAGGGTCATGCGACTTGAATACACTGAGACTGAAAAAGGATTA
 CCAGAGGGTGGGAAATTGCAAGGGACAGAAGTCTTCATACAACGGTATTACCAGTGCCTTTCCGCCACC
 CGGTCAAAGACCTGTCAGTACAATAAATGTGTAAGCATTGGGCTGTGCTCAATCTTTACTGAACACA
 AAAAGATCTTTCAAGGAAAAAGTGTACAAGTGCAGAGTGGGTAAGACTGCCGCTGTCCGACTT
 CACCATTTCAGAAACGCATTACACCGCCGATCGCTCCTACAAATGTGAGGAGTGGGAAAGCGTGAAG
 AAATTCAGTAACCTCACAGAACACAACAGAGTGCATACAGGGAAGAAACCTTACAAATGCGAGGAGTGC
 GCAAGACTTTTACTTGTCTAGCGCACTGACGAAGCACAAGGAATCACACAGGAGATCGGCCCTACAA
 GTGCGAGGAATGCCATAAGGCTTTTAGGTGTTGCTCAGACCTTACAAAGCACAAGAGGATTCACACCGGA
 GAAAAACCATACAAGTGCAAGAATGTACAAGGCCTTCAGATGTTGTTCCGACCTGACAAACATAAAA
 GGATACATACGGGCGAGAAGCCGTACAAGTGAACGAGTGTGGGAAGGCATTTCATGTGGATTTCTGCCCT
 GTCACAACACAACCGCATTACACCGGGGAGAAGCCATACATCTGTGAGGAGTGGCGGAAAGCGTTTACG
 TACTCATCCACTCTGATTAGCCACAAGCGGATCCATATGGAAGTGGGCGGATATAATGCGAGGAATGCG
 GAAAGACCTTTAAATGGTTTAGCGACCTCACAAACCACAAGAGGATCCACACCGGGGAGAAGCCCTACAA
 ATGCGAAGAGTGTGGAATCCTTTACTTGTTCAGCAATCTGATCAAGCACAAGAAATCCATATGGAG
 GTCCGGCCTTACAAGTGCAGGAGTGCAGAAAGACATTTAAATGGTTTCTGACCTGACGAACCATAGA
 GGATCCACACGGGCGAGAAACCATACAATGCGAGGAGTGCAGAAACATTTACATGTTCTTCTCTCT
 GATTAAGCATAAACGGTCACATACCGGCGACAGCCACGTCTGCAAAAACGTAGCAAAGCCTCTCGGC
 GGTAGCCAGACACTGCTGAATATTCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228413 representing NM_001159522
 Red=Cloning site Green=Tags(s)

MRVLTFRDVAVEFSPEEWECLDSAQQRLYRDVMLENYGNLFSGLAIFKPDILITYLEQRKEPWNARRQKT
 VAKHPAGSLHFTAEILLEHDINDSFQKVLIRKSGCDLNTLRKKDYQRVGNCKGQKSSYNGIHQCLSAT
 RSKTCQYNKCGKAFGLCSIFTEHKKIFSREKCYKCEECGKDCRLSDFTIQKRIHTADRSYKCEECGKACK
 KFSNLTEHNRVHTGKPKYKCEECGKTFTCSSALTKHKRNHTGDRPYKCEECHKAFRCCSDLTKHKRIHTG
 EKPYKKECHKAFRCCSDLTKHKRIHTGEKPYKCEECGKAFMWISALSQHNRIHTGEKPYICEECGKFT
 YSSTLISHKRIHMLRPYKCEECGKTFKWFSDLTNHKRIHTGEKPYKCEECGKSFTCSSNLTKHKRIHME
 VRPYKCEECGKTFKWFSDLTNHKRIHTGEKPYKCEECGKTFTCSSSLIKHRSHTGDRPTS AKNVAKPLG
 GSQTLLNIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159522

ORF Size: 1497 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).

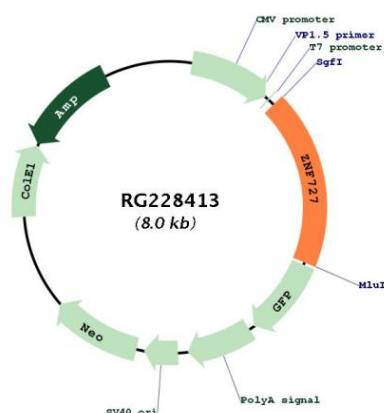
Reconstitution Method:

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_001159522.1](#), [NP_001152994.1](#)

RefSeq Size:	8478 bp
RefSeq ORF:	1500 bp
Locus ID:	442319
UniProt ID:	<u>A8MUV8</u>
Cytogenetics:	7q11.21
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG228413