

Product datasheet for **RG215507**

ZNF697 (NM_001080470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF697
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215507 ORF sequence, codon optimized.

Due to the complexity of NM_001080470, 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

ATGAAGCAGGAGGATAATCAGGGGGTCTGCGCACATCAAGATTCAGAGGACAAAGGGATGGGAAGTGACT
TTGAGGACACGCGAGGACAGGGAGGGGATCCGGAGGAGAGAGATGGGAAGCAATCCTCACGATACAAA
CAAGCGCAAGGCCATCCTGAACAGAGATGGGCTCCAACCCACAGGATAGTCGGCACCGCAAGCCGTG
CCAGATATCTGCACAGAGGGCCAGCTGAGCGAAGAGGAAGGAGTTTCAGTGGGGGCGAGGAGGATGACC
AAAGTGGAGTCGACAGATATGGCTATGTTTCCGGGCCTGTCAGAGTCTGACTCAATTTCCAGGAGCCTGAG
GGAGGACGATGACGAGTCAGCCGGAGAAAAACAGACTGGAAGAGGAGGAGGAACAACCGGCACCTCCAGTG
CTTCCTTGGCGCAGGCACCTTAGTCTCGGGTCTAGGCATAGAGGAGATAAACC CGCCACCCAGATTTT
ACAGGCTGCATCATCCTATGGCCGTGGATTTGGGAGAGCTGGACAGCTTGGTAGCTAGCATTATGGACGC
TCCCACATTTTGGCCAGATTGTGGTGAATCTTTTCAGTCCAGGGGCAGCATTTTTCAGCAGCAACACGCATC
CATAGTTGGCTGAGGCTGCCGCCCGCTAGCCTCGAGCCCTTCGGCCTGGCCGGTGAGTGTGACGCAA
TGGTTGGGATGATGGGTGTGGAGTCGCTGGAGTTTTGGCGCTGGACCACCACTGGCAAGGCCGCCACG
GGAAAAACCTTTCAGATGCGGAGAGTGGGGAAGGATTAGCCGAAATACATACCTTACCAATCACCTC
AGGCTGCACACCGCGCAACGGCCTAATCTGTGCGCAGACTGCGGGAAGAGCTTCAGTTGGCGCGCCGATC
TCCTCAAGCACCGCCGCTCCATACTGGAGAAAAACCTACCCCTGTCCGAGTGTGGCGAAGCTTTTTTC
CCTGAGTTCACACCTCCTTAGTCACCGGAGGGCCCATGCCGCTGCATCCGGTGGCGGAGCCGCCGCACTC
CGGCCATTTGCCTGCGGCAATGTGGCAAGGGTTCGTGAGAAGATCTCACCTCGAAACCAACCAAGAA
TTCACACTGGCGAGAAAGCCTCATGGCTGCGGGGAATGCGGCAACCGTTTTTCATGGCGGTCTGATCTGGT
GAAGCATCAGAGGGTCCATACAGGAGAAAAACCTATATGTGTTCCGAATGCGGCGAGACATTCTCAGTG
AGCTCACACCTGTTACCCACAAGAGAACTCACTCAGGCGAGAGGCCATACGTTTGTGGGAATGCGGGA
AGGGCTTTGGAAGAACTCTCACTTGGTGAACCACTTGAGAGTGCATACCGGGGAAAAAGCCTTTTCGCTG
CGGCCAATGCGAAAGCGCTTCTCAGATTTTAGCACTCTCACTCAGCACCAGAGAACCCATACCGGGGAA
AAACCATATACCTGCATCGAATGCGGAAAGAGTTTCATACAGTCTTCTACCTGATACGACAGAGAAGGA
TACATACCGGCAACAAGCCTCATAAGTGTCCGGATGCGGTAAAGGATTAGGTACAAGACACACCTCGC
GCAGCATCAAAAACCTCCATCTGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215507 representing NM_001080470

Red=Cloning site Green=Tags(s)

MKQEDNQGVCAHQDSEDKMGSDFEDESEDREGDPEEREMGSPNPHDTNKREGHPEPEMGSNPQDSRHREAV
PDICTEGQLSEEEGVSVRGEEDDQSGVADMAMFPLSESDSISRSLREDDDESAGENRLEEEEEEQAPPV
LPWRRHLSLGSRHRGDKPAHRRFHLHHPMAVDLGELDSLVAIMDAPITCPDCGESFSPGAFLQHQR
HRLAEAAAAASLEPFLAGECDAMVGMVGAGGFGAGPPLARPPREKPFRCGECGKGF SRNTYLTNHL
RLHTGERPNLCADCGKSFSWRADLLKHRRLHTGEKPYPCPECGEAFSLSSHLLSHRRAAAAAGAGAAAL
RPFACGECGKGFVRRSHLANHQRIHTGEKPHGCGECGRFSWRSDLVKHQRVHTGEKPYMCSECFSTFV
SSHLLFTHKRTHSGERPYYCRECGKGFGRNSHLVNHLRVHTGEKPFRCGQCEKRFSDFTLTQHQRHTHTGE
KPYTCIECGKSF IQSSHLIRHRIHTGNKPHKACGCGKGFYKTHLAQHQLHLCL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001080470

ORF Size: 1635 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:

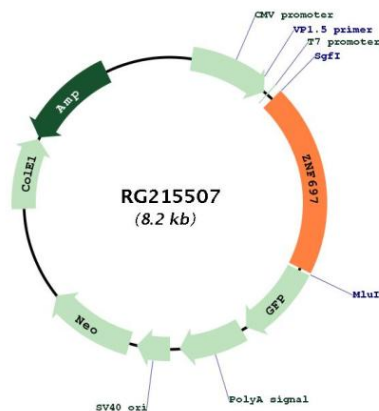
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001080470.1](#), [NP_001073939.1](#)

RefSeq Size:	5579 bp
RefSeq ORF:	1638 bp
Locus ID:	90874
UniProt ID:	Q5TEC3
Cytogenetics:	1p12
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215507