

Product datasheet for **RG207701**

ZNF616 (NM_178523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF616
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207701 ORF sequence, **codon optimized**.

Due to the complexity of NM_178523, 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**CGCATCGCC**

ATGGCTACTCAGGGCATTGTGACATTCAAGGATGTAGCCATAGAATTCTCTCAGGAGGAGTGGAATGCC
TGGAGCCTGTGCAGAAAGCTTTGTACAAGGATGTGATGTTGGAGAACTATAGGAACCTGGTCTTCTCAGG
TATCTCTCCTAAATGTGTGATCAAGGAATTACCACCAACAGAGAACAGTAATACAGGAGAAAGGTTCCAA
ACAGTGGCACTGGAAGACATCAAAGCTATGATATTGAAAATTTATACTTCAGGGAATACAGAAACATC
TACATGACCTTGAATTTCAATGGAAGATGGTGAACAAATGATAAAGAAGTCCAGTGCCCATGAAAA
CAATCTTACTGGTAAAAGAGATCAACATAGTCAAGGGGATGTAGAAAACAATCATATTGAAAACAGCTT
ACATCAAACCTTGAAGTACGCTCGGCTGAAGTGCAGAAAGTTCAAAGTGAAGGGAGACTTTTGAATGTA
ATGAAACGGAGAAGACAGGTAATATGGTTGTTAGTTTCTCCACACATTAGGGAAAAACGATGTATG
TAATGAATGTGGCAAAGCCTTTAAAGCGTCTTCCAGCCTTATTAATCATCAGAGGATACATACTACAGAG
AAACCTTACAAATGCAATGAGTGTGGCAAAGCCTTTCATCGGGCCTCACTAACTGTACACAAGGTAG
TCCATACAAGAGGAAATCATATCAATGTGATGTATGTGGCAAGATCTTCAGAAAAAATTCATATTTGT
AAGACACCAAAGGAGTCACTGGACAGAAACCTACATATGTAATGAATGTGGCAAGTCTTTAGTAA
AGTTCCACCTTGCAGTTCATCAGAGAATTCATACCGGTGAAAAACCTTACAAATGTAATCTGTGTGGGA
AATCCTTTAGTCAGCGTCCATCTTAGACTTCATCAGACAGTTCATACTGGAGAGAGACCTTCAAATG
TAATGAGTGTGGCAAAACCTTTAAACGGAGCTCAAACCTCACTGTACATCAGGTAATCCATGCAGGAAAG
AAACCATATAAATGTGATGTATGTGGCAAGGCATTAGACATAGATCAAATCTGTATGTACCGGAGAA
TCCACAGTGGAGAGAAACAATACAAATGCAATGAATGTGGCAAGGTCTTCAGTAAACGTTCAAGTCTTGC
AGTGCAATCGACGAATTCACACTGTAGAGAAACCTTGCAAATGCAATGAATGTGGCAAGGTCTTCAGTAA
CGTTCAAGTCTTGCAGTGCATCAGAGAATTCATACTGGACAGAAAACTTACAAATGCAATAAATGTGGCA
AGGTGTACAGTAAGCATTACATCTTGCAGTGCATTGGAGAATTCATACCGGCGAGAAAGCTTATAAATG
CAATGAATGTGGCAAAGTTTTAGCATAACATTCAGACTTGCAGCTCATCAGAGAATTCATACTGGAGAG
AAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAACATTCACGTCTTGCAGTGCATCGGAGAA
TTCATACTGGAGAGAAACCTTACAAATGCAAAGAATGTGGCAAGGTCTTCAGTGACCGTTACGCTTTTGC
AAGGCATCGGAGAAATTCATACTGGAGAGAAGCCTTACAAATGCAAAGAATGTGGCAAGGTCTTCAGTCAA
TGTTACAGTCTTACAGTGCATCGGAGAATTCATAGTGGAGAGAAACCTTACAAATGCAATGAATGCGGCA
AGGTCTACAGTCAGTATTACATCTTGTAGGGCATCGAAGAGTTCATACTGGAGAGAAACCATACAAATG
TCATGAATGTGGCAAAGCCTTTAATCAGGGCTCCACACTCAATAGACATCAGAGAATTCATACCGGAGAG
AAACCTTACAAATGCAATCAGTGTGGGAATTCCTTTAGTCAGCGTGTCCATCTTAGACTTCATCAGACTG
TTCATACTGGAGACAGACCTTACAAATGTAATGAGTGTGGCAAAACCTTTAAACGGAGCTCAAACCTCAC
TGCACATCAGATAATTCATGCAGGAAAGAAACCATATAAATGTGATGAATGTGGCAAGGTATTACAGGCAT
AGTTACATCTTGTAAAGTACCAGAGAATCCACACTGGAGAGAAAAAGATACAAATGTATTGAATGTGGCA
AAGCCTTTGGGCGGTTGTTTTCCCTCAGCAAACACCAAGAATTTCATTCTGGCAAAAAACCTTATAAATG
TAATGAGTGTGGGAAATCTTTATTTGTCGCTCAGGCCTCACTAAACATCGAATAAGACATACTGGAGAG
AGCCTTACAACCTAACTCAATGTGACAAGGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207701 representing NM_178523

Red=Cloning site Green=Tags(s)

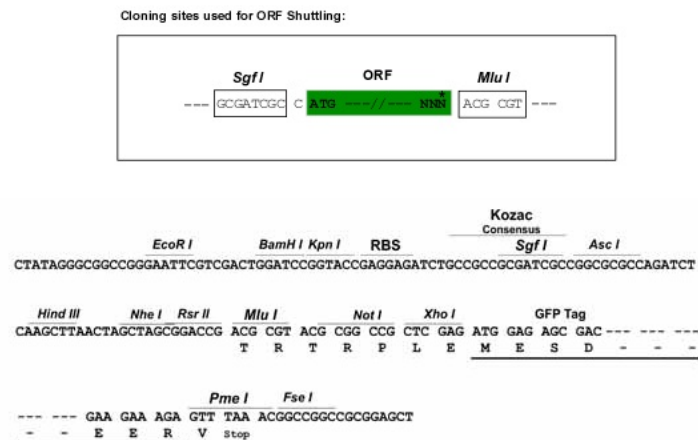
MATQGHILTFKDVAIEFSQEEWKCLEPVQKALYKDVMLNENYRNLVFLGISPKCVIKELPPTENSNTGERFQ
TVALERHQSYDIENLYFREIQKHLHDLFQWKDGETNDKEVPVPHENNLTKGRDQHSQGDVENNHENQL
TSNFESRLAELQKVQTEGRLYECNETEKTGNGCLVSPHIREKTYVCNECGKAFKASSSLINHQRIHTTE
KPYKNECGKAFHRASLLTVHKVVHTRGKSYQCDVCGKIFRKNSYFVRHQRSHTGQKPYICNECGKSFSK
SSHLAVHQRIHTGEKPYKCNLCGKSFSQRVHLRLHQTVHTGERPFKNECGKTFKRSSNLTVHQVIHAGK
KPYKCDVCGKAFHRNSLVCHRRHISGEKQYKNECGKVFSSKSSSLAVHRRHHTVEKPKCNECGKVFSK
RSSSLAVHQRIHTGQKTYKCNKCGKVYSKSHSLAVHWRIHTGEKAYKNECGKVFSSHSRLAAHQRIHTGE
KPYKNECGKVFSSHSRLAVHRRHHTGEKPYKCKEKGKVFSSDRSAFARHRRHHTGEKPYKCKEKGKVFSSQ
CSRLTVHRRHISGEKPYKNECGKVYSQYSHLVGHRRVHTGEKPYKCKEKGKAFNQGSTLNRHQRIHTGE
KPYKCNQCGNSFSQRVHLRLHQTVHTGDRPYKNECGKTFKRSSNLTAHQIIHAGKKPYKDECGKVFRH
SSHLVSHQRIHTGEKRYKIECGKAFGRFLSKHQRIHSGKKPYKNECGKSFICRSGLTKHRIHTGE
SLTTKLVNTRP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_178523

ORF Size:

2343 bp

OTI Disclaimer:

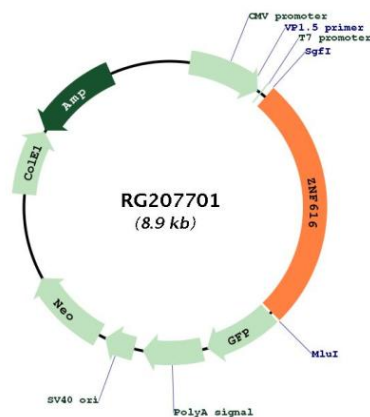
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_178523.5
RefSeq Size:	4356 bp
RefSeq ORF:	2346 bp
Locus ID:	90317
UniProt ID:	Q08AN1
Cytogenetics:	19q13.41
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207701