

Product datasheet for **RG207269**

ZNF678 (NM_178549) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF678
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207269 ORF sequence, **codon optimized**.
Due to the complexity of NM_178549, 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**

ATGCCGGGGCACCCCTGAGAGCAGGAAGACCCGCCGATTCTGACGATGCTCCCTCGACTGGTGCTTAACA
GTTTTCCCAAGTGATATTGCTCCCAATCCTCTAAAGTACTGCGCTTGCAAGGCTTGCTCGCCTTCTC
CGACGTTGTGATTGAATTCAGTCCCGAAGAGTGGCCTGTCTGGATCCGGCTCAGAGGAACCTGTACAGG
GACGTCATGTTGAGAACTACAGAACTTGGTGAGTCTCGCTATTCTGTCATACTCCATCCAGGACCTGC
TCCCTGAGCAGGATATGAAGGATCTCTGCCAGAAAGTACCTTGACGCGCACCGGTCTGGGGCTGGA
CAATCTGCACCTGGTTAAGGACTGGCGCACCGTGAATGAGGGCAAGGGGCAAAAAGAGTACTGTAACCGG
CTTACCCAATGCTCCAGCACAAAATCTAAGATTTCCAGTGATCGAATGTGGTCGCAATTTTCTTGGC
GCAGCATCCTCACTGAGCATAAACGGATCCACACAGGTGAAAAACCTATAAATGTGAAGAGTGCGGAAA
AGTATTTAACCGGTGCAGTAACCTGACAAAGCACAAGCGGATTATACCGGGGAGAAACCGTATAAGTGT
GACGAGTGGCGCAAGGTGTTCAACTGGTGGTGCAGCTGACCAACCACAAGAAGATTACACCGGCGAGA
AACCTACAAATGTGACGAGTGTGATAAAGTCTTCAACTGGTGGAGCCAGCTGACCTCCACAAGAAGAT
ACACAGTGGAGAGAAACCTATCCTTGTGAAGAGTGCGGGAAGGCGTTCACTCAGTTTTCAATCTCACA
CAACACAAGCGAATACATACTGGCGAGAAGCCGTACAAATGCAAAGAGTGCTGCAAGGCTTCAATAAGT
TTTCAACCTGACACAGCACAAAGCGCATCCACACTGGAGAAAAACCTATAAGTGTGAGGAGTGCGGGAA
TGTCTTTAATGAATGCTCACACCTCACACGGCATAGGAGAATTACACAGGTGAGAAGCCATACAAATGC
GAGGAATGCGGCAAGCATTTACGAGTTCGCGAGTCTCACTAGACATAAGCGCATACATACAGGTGAAA
AACCTTACCAAGTGCAGGAGTGGGAAAAACATTTAACCGCTGTAGCCATCTGAGCTCCACAAGAGAAT
TCATACTGGAGAGAAACCTTACAAGTGTGAAGAGTGCGGGAGAACTTTACACAGTTCTCTAATCTTACT
CAGCACAAGAGAATTATACCGGAGAGAAACCTATAAGTGCAAAGAGTGTGGTAAGGCTTCAACAAAT
TCAGCAGCCTCACCCAGCACAGAAGATCCACACAGGAGTTAAACCTATAAGTGTGAGGAGTGCGGAAA
AGTGTTTAAGCAATGCTCTCACCTCACTTCTATAAAGGATCCACACAGGCGAAAAAGCCCTACAAATGT
AAGGAGTGGGAAAGGCGTTTACCAAGTCTTCTATCTTGAGCAAAACAAAAAGAAATCCACACCGAAGAAA
AACCTATAAGTGCAGAAATGCGGAAAAGCCTTCAACCAATTTTCTTCACTTACACGGCACAAACGGAT
TCATACAGGCGAAAAACGATATAAATGTAAGAGTGTGAAAAGGGTTCTACCAAGAGCAGTATTCATTCT
AAATATAAGCGCATTATATACTGGAGAAGAGCCCGATAAGTGCAAGAAGTGCGGCAGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

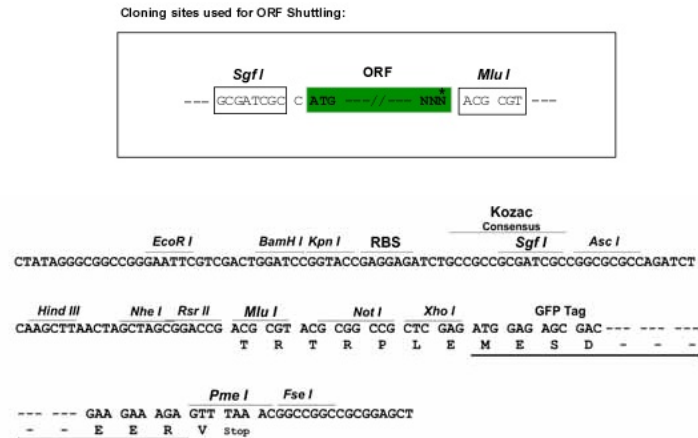
Protein Sequence: >RG207269 representing NM_178549
Red=Cloning site Green=Tags(s)

MPGHPESRKTRRILTMLPRLVLNSFPQVILLPNPPKVLRLQGLLAFSDVVIEFSPEEWACLDPAQRNLRY
DVMFENYRNLSLAILSYSIQDLLPEQDMKDLQKVTLTRHRWSGLDNLHLVKDWRTVNEGKGQKEYCNR
LTQCSSTKSKIFQCI ECGRNFSWRILTEHKRIHTGEKPYKCECGKVFNRCSNLTKHKRIHTGEKPYKC
DECGKVFNNWSQLTNHKKIHTGEKPYKDECDKVFNNWSQLTSHKKIHSGEKPYPCCECGKAFTQFSNLT
QHKRIHTGEKPYKCECKAFNKFNSLQHKRIHTGEKPYKCECGNVFNECSHLTRHRIHTGEKPYKC
EECGKAFTQFASLTRHKRIHTGEKPYQCECGKTFNRCSHLSHKRIHTGEKPYKCECGRTFTQFSNLT
QHKRIHTGEKPYKCECGKAFNKFSSLTQHRRIHTGVKPYKCECGKVFQCSHLTSHKRIHTGEKPYKC
KECGKAFYQSSILSKHKRIHTEKPYKCECGKAFNQFSSLTRHKRIHTGEKRYKCECGKGFYQSSIHS
KYKRIYTGEPPDKCKKCGSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178549

ORF Size: 1740 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:

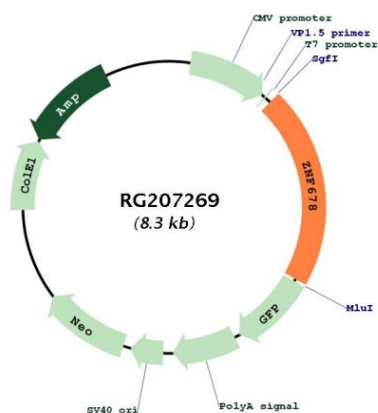
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_178549.3](#), [NP_848644.2](#)

RefSeq Size: 8515 bp
 RefSeq ORF: 1743 bp
 Locus ID: 339500
 Cytogenetics: 1q42.13

Product images:



Circular map for RG207269