

Product datasheet for **RG214988**

ZNF780B (NM_001005851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF780B (NM_001005851) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF780B
Synonyms:	ZNF779
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG214988 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001005851, 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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGTGACGGCAGTGTGACGTTTCGCGATGTGGCAATTGATTTCACTCAAGAAGAATGGGAATGTCTCC
 AGCCCGACCAAAGGACTCTTTATCGAGATGTGATGCTGGAGAATTATTCACACCTTATCTCTCTGGGAAG
 CTCTATCTCCAAGCCCGACGTGATAACGCTGCTCGAGCAGGAAAAGGAGCCATGGATCGTGGTGAGCAAG
 GAAACCAGCCGCTGGTATCCTGACCTGGAGTCCAAATATGGACCGGAGAAGATCTCCCCAGAAAACGATA
 TTTTCGAGATTAACTTCTTAACACGTTATCAAACAGATATCCAAAACCTTGGGTTTGGAGGCTTTTTC
 CTTCCGAAACGATTCAAGATACAGGTCTAGGTTTCGAGGGCCGCCAGGGCCACAGGAGGGTTATATAAAC
 CAAAAATCATCTCCTATGAAGAGATGCCGGCCTACACCCACGCCAGTCCAATCCACAATACCCACAAGC
 CTTACGAATGCAAAGAGTGCAGAAAGTATTTAGCTGCGGCTCTAACCTCATTACGACCAAAGTATACA
 CACTGGCGAAAAACCTTATAAGTGTAAAGAGTGTGGGAAGGCTTTCACCTGCACATCCAACCTTACTCGG
 CATCAAAAGTTCCATACTGGAGAAAAACATTTGAATGTAAAGAGTGTGGTAAGGCCTTCAACCTTCTTA
 CCCAAGTGAACCGGCATAAAAAACATTCACACTGTAAAGAACTGTTGCAATGCAAAGAATGCGGGAAGAG
 CTTCAACAGAAGCTCTAATCTCACTCAGCACCAGAGCATCCACGCTGGCGTCAAACCTTACCAGTGCAAG
 GAATGTGGCAAAGCATTCAACCGGGGCTCTAACTTGATTCAAGCATCAGAAGATACACTCCAATGAGAAGC
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 CACCAGAAGATACATATGGGTGAGAAACCTTTCGAATGCAGAGAATGTGGTAAAGCGTTTTCATTGCTGA
 ATCAGCTCAACCGGCACAAGAATATCCATACAGGCGAGAAGCCATTTGAATGCAAAGAATGCGGCAAGTC
 CTTCAACCGCTCCTCAACTTGATCCAGCATCAATCTATTCATGCCGATGTCAAACCTATGAGTGCAAG
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 CTTTTGTCTGCAGAGAGTGTAAATGGCATTCCGGTATCATTATCAGCTGATTCAACACTGCCAAATCCA
 TACGGGAGGAAAAACCTTCGAATGCAAGGAGTGTGGGAAAGCCTTTCCCTGTTGACCCAGCTTGCTCGA
 CAAAAAACATTACACGGGGGAGAAGCCCTTTGAGTGCAAAGACTGCGGCAAGGCGTTCAATAGGGGGT
 CCAATCTGGTACAACACCAAGTCCATACACACCGGAGAGAAGCCCTACGAATGCAAAGAATGCGGGAAAGC
 ATTTAGGTTGCACCTGCAGCTCAGCCAGCATGAGAAAACCCCACTGGCGAAAAACCTTTTGAAGTGAAG
 GAATGCGGCAAGTTTTTCAGACGCGGCTCCAACCTGAATCAGCACCAGCATACATACAGGCAAGAAGC
 CTTTTGAGTGCAAAGAGTGCAGAAAGGCTTCCGGTGCACATGCATCTTATTCGACATCAAAAATTCCA
 TACCGGCGAGAAGCCCTTCGAATGCAAGGAATGCGGCAAAAGCGTTTAGTTTGCACACTCACTGAATCAC
 CAAAAAACATTACACCGGCGAAAAACCATTCAGTGCAAAGAGTGCAGAAAAATCCTTTAATCGGGTAA
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 GAGTGCAGAAAAACATTAGATACCACTATCAACTCACTGAGCACTACCGGATTCACTGGAGAGAAAC
 CATTGAGTGTAAAGAGTGCAGGAAAGCATTGGGCTGCTGACTCAGCTGGCCCAACATCAAAATCATTCA
 CACGGGCGAGAAGCCCTTTAAATGCAAGGAATGTGGGAAAGCATTCAACCGCGGAGCAATCTGGTACAG
 CCTCAGTCCATCCACAGGCGAGAAGCCATACGAGTGTAAAGAGTGCAGAAAGGCTTTTCACTGCACC
 TGCAACTGTCTTCCACAGAAGCTCGTCAGGTGCGGAATCACTCAATGTGCGGAATGTAGGACAGCC
 CAGTGACATTTTCAACCTTCTGAACATCAGAAAGTTCATTCTGGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

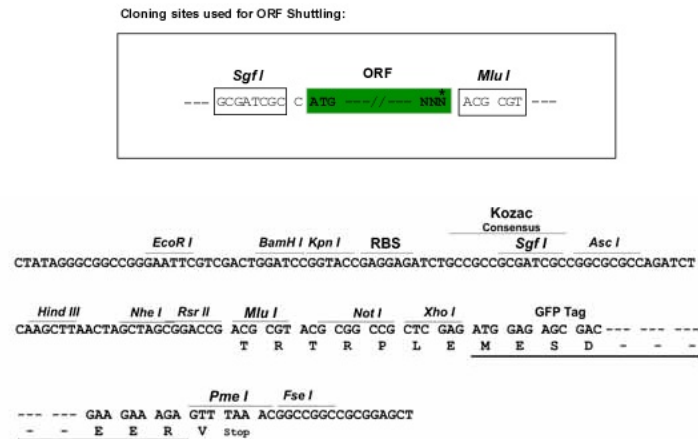
Protein Sequence: >RG214988 representing NM_001005851
 Red=Cloning site Green=Tags(s)

MVHGSVTRFDVAIDFSQEEWECLQPDQRTLYRDVMLENYSHLISLGSSISKPDVITLLEQEKEPWIVVSK
 ETSRWYPDLESKYGPEKISPENIDIFEINLPKHVIKQISKTLGLEAFYFRNDSEYRSRFEGRQGHQEGYIN
 QKIISYEEMPAYTHASPIHNTHKPYECKGKYFSCGSNLIQHQSIIHTGEKPYKCECGKAFQLHIQLTR
 HQKFHTGEKTFECKECGKAFNLPTQLNRHKNIHTVKKLFECKECGKSFNRSSNLTQHQSIIHAGVKPYQCK
 ECGKAFNRGSNLIQHQSIIHSNEKPFVCRECEMAFRYHYQLIEHCRIHTGEKPFECKECRKAFTLLTKLVR
 HQKIHMGKPFECRECGKAFSLLNQLNRHKNIHTGEKPFECKECGKSFNRSSNLIQHQSIIHADVKPYECK
 ECGKGFNRGANLIQHQSIIHSNEKPFVCRECEMAFRYHYQLIQHCQIHTGGKPFECKECGKAFSLLTQLAR
 HKNIHTGEKPFCKDCGKAFNRGSNLVQHQSIIHTGEKPYECKECGKAFRLHLQLSQHEKTHTEKPFCK
 ECGKFFRRGSNLNQHSIHTGKKPFECKECGKAFRLHMLIRHQKFHTGEKPFECKECGKAFSLHTQLNH
 HKNIHTGEKPFCKECKGKSFNRSNLVQHQSIIHAGVKPYECKECGKFSRVSNLIQHQKTHSSAKPFVCK
 ECRKTFRYHYQLTEHYRIHTGEKPFECKECGKAFGLLTQLAQHQIHTGEKPFCKECKGAFNRGSNLVQ
 PQSIHTGEKPYECKECGKAFRLHLQLSLHQKL VQVRNPLNVRNVGQPSDISSNLLNIRKFILG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

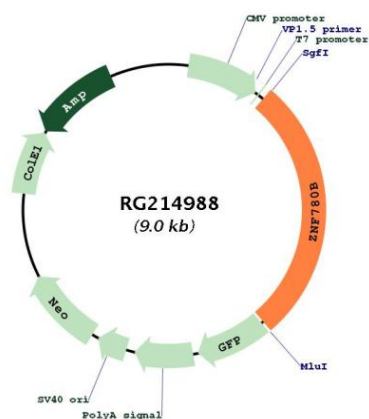


ACCN: NM_001005851

ORF Size: 2499 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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.
RefSeq:	<u>NM_001005851.1, NP_001005851.1</u>
RefSeq Size:	8687 bp
RefSeq ORF:	2502 bp
Locus ID:	163131
UniProt ID:	<u>Q9Y6R6</u>
Cytogenetics:	19q13.2
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214988