

Product datasheet for **RG220750**

ZFP161 (ZBTB14) (NM_003409) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFP161 (ZBTB14) (NM_003409) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFP161
Synonyms:	ZF5; ZFP-5; ZFP-161; ZFP161; ZNF478
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220750 representing NM_003409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGTTTTTTCATCAGTATGTCTGAAACCATTAATATAATGACGATGATCATAAACTCTGTTTCTGA
 AAACACTAAATGAACAACGCCTGGAAGGAGAATTTGTGATATTGCTATTGTGGTTGAGGATGTGAAATT
 CAGAGCACACAGATGTGTTCTTGCTGCCTGCAGCACTTACTTTAAAAAGCTTTTCAAGAAGCTTGAGGTT
 GATAGTTCTTCGGTCATAGAAATAGATTTTCTCGTTCTGATATATTTGAAGAGGTCCTGAACTACATGT
 ACACAGCAAAGATTTCCGTGAAAAAGAAGATGTTAACTTAATGATGTCATCGGGTCAGATTCTTGGTAT
 CCGATTTTGGATAAACTGTGTTCTCAGAAGCGTGATGTGTCCAGTCCCGATGAAACAATGGTCAGTCC
 AAAAGTAAGTATTGCCTTAAAAATAATCGCCCCATTGGAGATGCTGCTGACACCCAGGATGATGATGAG
 AGGAAATCGGGGATCAGGATGACAGTCTTCTGATGACACAGTAGAAGGCACACCCCGAGTCAGGAGGA
 CGCAAGTCGCCCACCACAACGCTCAGGGTTCAGGAAGCGATCCTGAAAGAGCTGGGGAGTGAGGAAGTT
 CGGAAGGTCAATTGCTACGGCCAGGAAGTAGAATCCATGGAGACCCAGAATCAAAAGACTTGGGGTCCC
 AGACCCCTCAAGCCTTAACATTTAATGATGGGATGAGTGAAGTGAAGATGAACAGACACCAAGGCTGGAC
 AACAGCCGCCAGTGACATGAAGTTTGAATTTGCTTTATGGTCACCATCGGGAGCAGATTGCTGCCAG
 GCGTGTGGGAAGACGTTTTCTGATGAAGGCAGATTGAGGAAGCATGAGAACTCCACACGGCGGACAGGC
 CATTTGTTTGTGAAATGTGCACAAAAGGTTTACCACACAGGCCACCTGAAAGAACACCTAAAAATCCA
 CACAGGATATAAGCCCTATAGCTGTGAGGTGTGTGAAAAATCATTATCCGTGCCCCAGACTTAAAGAAG
 CATGAGAGAGTTCACAGTAATGAAAGACCGTTTTCGTGCCACATGTGTGACAAAGCCTTCAACACAAGT
 CTCACCTCAAGGATCATGAAAGAAGACACAGAGGGGAAAAGCCTTTTGTGTGGCTCCTGCACCAAGGC
 ATTTGCCAAGGCATCTGATCTGAAAAGGCACGAGAACAAATATGCACAGTGAAGGAAGCAGGTTACCCCC
 AGTGCCATCCAGAGCGAGACAGAACAGTTGCAGCGGCAGCGATGGCTGCGGAAGCAGAACAGCAGCTGG
 AGACGATAGCCTGTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220750 representing NM_003409
 Red=Cloning site Green=Tags(s)

MEFFISMSETIKYNDDHKLTLFLKTLNEQRLLEGFCDIAIVVEDVKFRAHRCVLAACSTYFKKLFKKLEV
 DSSSVIEIDFLRSDIFEEVLNMYTAKISVKKEDVNLMMSSGQILGIRFLDKLCSQKRDVSSPDENNGQS
 KSKYCLKINRPIGDAADTQDDVEEIGDQDDSPSDDTVEGTTPPSQEDGKSPTTTTLRVQEAAILKELGSEEV
 RKVNCYGQEVESMETPESKDLGSQTPQALTFNDGMSEVKDEQTPGWTTAASDMKFEYLLYGHHRQIACQ
 ACGKTFSDGRLRKHEKLHTADRPFCVEMCTKGFTTQHLKEHLKIHTGYKPYSCVCGKSFIRAPDLKK
 HERVHSNERPFACHMCDKAFKHKSHLKDHERHRGEKPFVCGSCTKAFKASDLKRHENNMHSERKQVTP
 SAIQSETEQLQAAAMAAEAQQLETIACS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003409

ORF Size: 1347 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.

RefSeq: [NM_003409.5](#)

RefSeq Size: 3665 bp

RefSeq ORF: 1350 bp

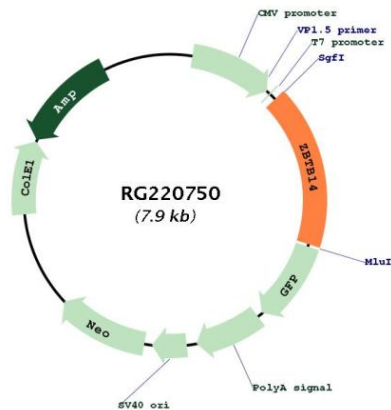
Locus ID: 7541

UniProt ID: [O43829](#)

Cytogenetics: 18p11.31

Domains:	BTB, zf-C2H2
Protein Families:	Transcription Factors
Gene Summary:	Transcriptional activator of the dopamine transporter (DAT), binding it's promoter at the consensus sequence 5'-CCTGCACAGTTCACGGA-3'. Binds to 5'-d(GCC)(n)-3' trinucleotide repeats in promoter regions and acts as a repressor of the FMR1 gene. Transcriptional repressor of MYC and thymidine kinase promoters.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220750