

Product datasheet for **RG234481**

ZNF568 (NM_001204837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF568 (NM_001204837) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF568
Synonyms:	ZFP568
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234481 representing NM_001204837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACCTGCTCAAAGAACTTGTATCGAGATGTGATGCTGGAGAACTACAGCAACCTAGTCACAGTGG
 GCTGTCAAGTACCAAACCGGATGTGATATTCAAGTTGGAGCAAGAAGAGGAGCCCTGGGTGATGGAGGA
 AGAAATGTTTGGGAGGCACTGTCCAGAAGTTGGGAAGTTGATGAACAGATCAAGAAGCAACAGGAAACA
 CTTGTGAGGAAAGTCACATCCATCTCCAAGAAAATTCTGATAAAGGAAAAAGTCATTGAATGTA AAAAG
 TTGCGAAAATATTTCTCTGAGTTCAGACATTGTTACTTCAAGACAAAGCTTCTATGACTGTGACTCACT
 TGATAAGGGTTTGGAACATAATTTAGACTTACTTAGATATGAGAAAGGCTGTGTAAGAGAGAAACAGAGT
 AATGAGTTTGGGAAACATTTTACCATTGTGCATCCTATGTTGTAACCCCTTTAAGTGAATCAGTGTG
 GACAAGACTTCAGTCATAAATTTGACCTCATTAGACATGAGCGAATTCATGCTGGAGAGAAACCTTACGA
 ATGTAAGAATGTGGAAGCCCTCAGTAGGAAGGAAAATCTTATTACACATCAGAAAATTCATACTGGG
 GAAAAACCGTATAAGTGAATGAATGTGGAAGCTTTTATTGAGATGTCAAACCTTATTAGACACCACA
 GAATTCATACTGGGAGAAACCTTATGCATGTAAGGATTGTTGGAAGCCCTTCACTCAGAAATCAAATCT
 CATTGAACATGAGCGAATTCACACTGGAGAGAAACCTATGAATGTAAGGAATGTGGGAAATCCTTCAGC
 CAGAAGCAAAATCTTATTGAGCAGGAGAAAATTCATACTGGGAGAAACCTTATGCATGTAATGAATGTG
 GTAGAGCTTTTTCTCGAATGTCTCTGTTACGCTACATATGAGAAGTACACAGGGGAGAAACCTTATAA
 ATGTAATAATGTGGAAGCTTTCTCTCAATGCTCAGTATTTATTATACATATGAGAAGTACACTGGT
 GAGAAACCTATGTATGTAGTGAATGTGGGAAAGCCTTCTCTCAGAGTTCATCCCTAACCGTACATATGC
 GAAATCATACAGCTGAGAAACCTATGAATGTAAGGAATGTGGAAGCCCTTCACTCAGGAGAAAGAAAATCT
 CATTACACATCAGAAAATTCACACTGGAGAGAAACCTTATGAATGCAAGTGAATGTGGGAAAGCTTTTATT
 CAGATGTCAAACCTCATTGACACCAGAGAATTCATACGGGTGAGAAACCTTATGCATGTACAGTATGTG
 GAAAAGCCTTTAGTCAGAAATCAAACCTCACTGAACATGAGAAAATTCATACTGGAGAGAAACCTTATCA
 TTGTAATCAATGTGGGAAAGCTTTCAGTCAGAGACAAAATCTTCTTGGAGCATGAAAAATTCATACTGGA
 GAGAAACCTTCAAATGTAATGAATGTGGTAAAGCCTTCTCTCGAATCTCATCCCTCACTTTCATGTGA
 GAAGTCACACAGGGGAGAAACCTTATGAATGTAATAAATGTGGGAAAGCCTTTTCTCAGTGTCTTACT
 TATTATACATATGAGAAGTCATACTGGTGAAGAAACCTTGAATGTAATGAATGTGGGAAAGCATTCTCT
 CAAAGAGCATCCCTTTCTATACATAAGAGAGGTCATACAGGTGAGAGACCAAGTATAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234481 representing NM_001204837
 Red=Cloning site Green=Tags(s)

MKPAQRNLYRDVMLENYSNLVTVGCQVTKPDVIFKLEQEPEPWMEEMFGRHCPEVWEVDEQIKKQQET
 LVRKVTSISKKILIKEKVIIECKKVAKIFPLSSDIVTSRQSFYDCDSLDKGLEHNLDLLRYEKGCVREKQS
 NEFGKPFYHCASYVVTPFKCNQCGQDFSHKFDLIRHERIHAGEKPYECKEKGKAFSRKENLITHQKIHTG
 EKPYKCNCEGKAFIQMSNLIRHHRHTGKPYACKDCWKAFSQQSNLIEHERIHTGKPYECKEKGKAFS
 QKQNLIEHEKIHTGKPYACNECGRAF SRMSSVTLHMSHTGKPYKCNKCGKAFSQC SVFIHMSHTG
 EKPYVCSECGKAFSQSSSLTVHMRNHTAEKPYECKEKGKAFSRKENLITHQKIHTGKPYECSECGKAFI
 QMSNLIRHQRIHTGKPYACTVCGKAFSQQSNLIEHEKIHTGKPYHCNQCGKAFSQRQNLLEHEKIHTG
 EKPFKCNCEGKAFSRISLTLHVRSHHTGKPYECNKCGKAFSQC SLLIHMRSHTGKPFECNECGKAFS
 QRASLSIHKRGHTGERHQVY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204837

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.

RefSeq: [NM_001204837.2](#)

RefSeq Size: 3805 bp

RefSeq ORF: 1743 bp

Locus ID: 374900

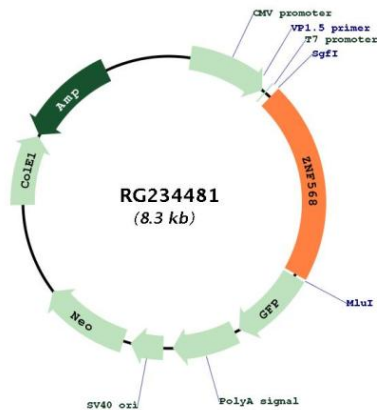
UniProt ID: [Q3ZCX4](#)

Cytogenetics: 19q13.12

Protein Families: Transcription Factors

Gene Summary: Has transcriptional repression activity, partially through the recruitment of the corepressor TRIM28 but has also repression activity independently of this interaction. Essential during embryonic development, where it acts as direct repressor of a placental-specific transcript of IGF2 in early development and regulates convergent extension movements required for axis elongation and tissue morphogenesis in all germ layers. Also important for normal morphogenesis of extraembryonic tissues including the yolk sac, extraembryonic mesoderm and placenta. May enhance proliferation or maintenance of neural stem cells. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234481