

Product datasheet for **RG234459**

ZNF568 (NM_001204839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF568 (NM_001204839) 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:

>RG234459 representing NM_001204839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAACCTGCTCAAAGAACTTGTATCGAGATGTGATGCTGGAGAACTACAGCAACCTAGTCACAGTGG
 GCTGTCAAGTACCAAACCGGATGTGATATTCAAGTTGGAGCAAGAAGAGGAGCCCTGGGTGATGGAGGA
 AGAAATGTTTGGGAGGCACTGTCCAGAACCAGAGAGGAGAGAAGTCTGTGCGCTGAAGTATGGCG
 GAGGGCTTGAAGTTCAAAGATGTGGTCACTTACTTCTCTCAAAGGAGTGGGAATGCTTGCCTCTGCTC
 AGAAGGATTTGTACCGAGATGTAATGTTGGAAAATACGGCAACCTGGTCTTACTGGGGCTTTCTGATAC
 TAAGCCAAATGTGATCTCCTTATTGGAGCAGAAGAAAGAGCCCTGGATGGTTAAGAGGAAGGAGACAAAA
 GAATGGTGTCCAGATTGGGAGTTTGAAGAGAAACCAAGAATTTATCTCAAAGGAAAACATTTATGAAA
 TTAGATCACCAACAGGAGAAGGCCAGAGTTATCAGAGAAATCAGATGCCAGGTGGAGAGACAACAGGG
 TCATCAGGAGGGACATTTAGACCAGCTGTAATACCATTTACTTCCATGCAGTGCACAGCCCATAGAGAA
 TATCAGTGGCTTCACTGGAGAGAAATCCTGTGAATGCAGGAAATGTAAGAATGCTTTTAGGTACCAGT
 CATGTCCTATTCAACATGAAATAATTCATAATAAGGAAAAAGAACCTGAATGTGGAGAATGTAGGAAAAT
 CTTAATAGTGGATCAGACTTGATTAAGCATCAGACGCTTCATGAAAGCAAAAAACATAGTAAAATAAC
 AAATGTGCCTTTAATCATGATTCTGGAATTACTCAACCTCAGAGCATTAACTGGAGAGAAACCTCATA
 AATGTAAGGAATGTGGGAAAGCCTTTTCGTTCCAGCTCACAAATAGTCAGCATCAGAGGATGCATCTTGG
 TGAGAAACCTATAAGTGTAGGGAGTGTGGGAAAGCCTTTCCATCCACTGCACAGCTTAATCTACATCAG
 AGGATCCATACTGATGAGAAATACTATGAAAGTAAGGCGTGTGGGAAAGCCTTTACCCGTCCTCACACC
 TTTTTCGACATCAAAGAATCCATACGGGTGAGAAACCCATAAATGTAAGGAATGTGAAAGGCTTTTCG
 TTATGACACACAGCTGAGCCTTTCATCAGATAATCCATACTGGTGAAGACGCTATGAATGCAGGGAGTGT
 GGAAAGGTGTACAGTTGTGCCTCACAGCTGAGTCTACATCAAAGAATTCATACTGGTGAAGAAACCCATG
 AATGTAAGGAATGTGGGAAAGCCTTTATCTCTGATTACATCTTATTCGACATCAGAGTGTCCATACTGG
 GGAGAAACCTGTAAAGTGAAGGAATGTGGGAAGTCCCTTCGTCGTGGCTCAGAACTTACCCGACATCAG
 AGAGCTCATACTGGTGAAGAAACCTATGAGTGTAAAGGAATGTGAAAGGCTTTACTTGTAGCACAGAAC
 TTGTTTCGACATCAAAGTTCACACTGGGAGAGACCCATAAGTGAAGGAATGTGGGAAAGGCTTTTCAT
 TCGAAGGTGAGAACTCACACATCATGAGAGAAGTACACTGGTGAAGAAACCTACGAGTGAAGGAGTGT
 GGAAGCCCTTTGGTGGTGGCTCAGAACTTAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234459 representing NM_001204839
 Red=Cloning site Green=Tags(s)

MKPAQRNL YRDVMLENYSNL VTVGCQVTKPDVIFKLEQEPEPWMEEMFGRHCPEPRRGENCCASEVMA
 EGLKFKDVVIYFSQKEWECLHSAQKDL YRDVMLENYGNL VLLGLSDTKPNVISLLEQKKEPVMVKRKETK
 EWCPDWEFGRETKNLSPKENIYEIRSPQQEKARVIREIRCQVERQQGHQEGHFRPAVIPFTSMQCTAHRE
 YQWLHTGEKSCECRKCKNAFRYQSCPIQHEI IHNKEKEPECEGCRKIFNSGSDL IKHQTLHESKKHSENN
 KCAFNHDSGITQPQSINTGKPHKCKEKGAFRSSSQISQHQRMHLGKPYKCRECGKAFPSTAQLNLHQ
 RIHTDEKYYESKACGKAFTRPSHLFRHQRIHTGKPHKCKEKGAFRYDTQLSLHQI IHTGERRYECREK
 GKVYSCASQLSLHQRIHTGKPHKCKEKGAFISDSHLIRHQSVHTGKPCCKCEGKSFRRGSELTRHQ
 RAHTGKPYECKEKAFTCSTELVRHQKVHTGERPHKCKEKGAFIRRESELTHHERSHTGKPYECKE
 GKPFGGGSELS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204839

ORF Size: 1713 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_001204839.1](#), [NP_001191768.1](#)

RefSeq Size: 2498 bp

RefSeq ORF: 1716 bp

Locus ID: 374900

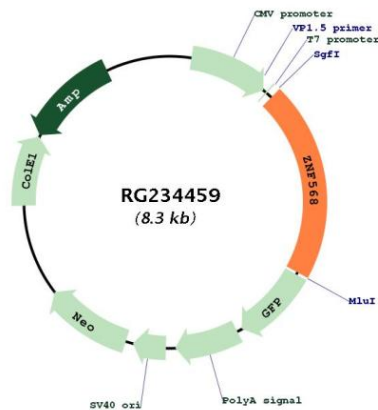
UniProt ID: [Q3ZCX4](#)

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 RG234459