

## Product datasheet for **RC234459**

### **ZNF568 (NM\_001204839) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ZNF568 (NM_001204839) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF568
Synonyms:	ZFP568
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234459 representing NM\_001204839  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACCTGCTCAAAGAACTTGTATCGAGATGTGATGCTGGAGAACTACAGCAACCTAGTCACAGTGG  
 GCTGTCAAGTCACCAAACCGGATGTGATATTCAAGTTGGAGCAAGAAGAGGAGCCCTGGGTGATGGAGGA  
 AGAAATGTTTGGGAGGCACTGTCCAGAACCAGAGAGGAGAGAAGTCTGTGCGCTGAAGTATGGCG  
 GAGGGCTTGAAGTCAAAGATGTGGTCACTTACTTCTCTCAAAGGAGTGGGAATGCTTGCCTCTGCTC  
 AGAAGGATTTGTACCGAGATGTAATGTTGGAAAATACGGCAACCTGGTCTTACTGGGGCTTTCTGATAC  
 TAAGCCAAATGTGATCTCCTTATTGGAGCAGAAGAAAGAGCCCTGGATGGTTAAGAGGAAGGAGACAAAA  
 GAATGGTGTCCAGATTGGGAGTTTGAAGAGAAACCAAGAATTTATCTCAAAGGAAAACATTTATGAAA  
 TTAGATCACCAACAGGAGAAGGCCAGAGTTATCAGAGAAATCAGATGCCAGGTGGAGAGACAACAGGG  
 TCATCAGGAGGGACATTTAGACCAGCTGTAATACCATTTACTTCCATGCAGTGCACAGCCCATAGAGAA  
 TATCAGTGGCTTCACTGGAGAGAAATCCTGTGAATGCAGGAAATGTAAGAATGCTTTTAGGTACCAGT  
 CATGTCCTATTCAACATGAAATAATTCATAATAAGGAAAAAGAACCTGAATGTGGAGAATGTAGGAAAAT  
 CTTAATAGTGGATCAGACTTGATTAAGCATCAGACGCTTCATGAAAGCAAAAAACATAGTAAAATAAC  
 AAATGTGCCTTTAATCATGATTCTGGAATTACTCAACCTCAGAGCATTAACTGGAGAGAAACCTCATA  
 AATGTAAGGAATGTGGGAAAGCCTTTTCGTTCCAGCTCACAAATAGTCAGCATCAGAGGATGCATCTTGG  
 TGAGAAACCTATAAGTGTAGGGAGTGTGGGAAAGCCTTTCCATCCACTGCACAGCTTAACTACATCAG  
 AGGATCCATACTGATGAGAAATACTATGAAAGTAAGGCGTGTGGGAAAGCCTTTACCCGTCCTCACACC  
 TTTTTCGACATCAAAGAATCCATACGGGTGAGAAACCCATAAATGTAAGGAATGTGAAAGGCTTTTCG  
 TTATGACACACAGCTGAGCCTTTCATCAGATAATCCATACTGGTGAAGAGCCTATGAATGCAGGGAGTGT  
 GGAAAGGTGTACAGTTTGTGCCTCACAGCTGAGTCTACATCAAAGAATTCATACTGGTGAAGAAACCCATG  
 AATGTAAGGAATGTGGGAAAGCCTTTATCTCTGATTACATCTTATTCGACATCAGAGTGTCCATACTGG  
 GGAGAAACCTGTAAAGTGAAGGAATGTGGGAAGTCCCTTCGTCGTGGCTCAGAACTTACCCGACATCAG  
 AGAGCTCATACTGGTGAAGAAACCTATGAGTGTAAAGGAATGTGAAAGGCTTTACTTGTAGCACAGAAC  
 TTGTTTCGACATCAAAGTTCACACTGGGAGAGACCCCATAAAGTGAAGGAATGTGGGAAAGGCTTTTCAT  
 TCGAAGGTGAGAACTCACACATCATGAGAGAAGTACACTGGTGAAGAAACCTACGAGTGAAGGAGTGT  
 GGAAGCCCTTTGGTGGTGGCTCAGAACTTAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234459 representing NM\_001204839  
 Red=Cloning site Green=Tags(s)

MKPAQRNLYRDVMLENYSNLVTVGCQVTKPDVIFKLEQEEEPWVMEEMFGRHCPEPRRGENCCASEVMA  
 EGLKFKDVIYFSQKEWECLHSAQKDLYRDVMLENYGNLVLGLSDTKPNVISLLEQKKEPVMVKRKETK  
 EWCPDWEFGRETKNLSPKENIYEIRSPQEQKARVIREIRCQVERQQGHQEGHFRPAVIPFTSMQCTAHRE  
 YQLHTGEKSCECRKCKNAFRYQSCPIQHEIHNKEKEPECGEGRKIFNSGSDLIKHQTLHESKKHSENN  
 KCAFNHDSGITQPQSINTGKPHKCKEKGAFRSSQISQHQRMHLGKPYKCRECGKAFPSTAQLNLHQ  
 RIHTDEKYYSKACGKAFTRPSHLFRHQRIHTGKPHKCKEKGAFRYDTQLSLHQIHTGERRYECREC  
 GKVYSCASQLSLHQRIHTGKPHKCKEKGAFISDSHLIRHQSVHTGKPCCKEKGKSFRRGSELTRHQ  
 RAHTGKPYECKECAFTESTELVRHQVHTGERPHKCKEKGAFIRRESELTHHERSHTGKPYECKE  
 GKPFGGGSELS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-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](#)

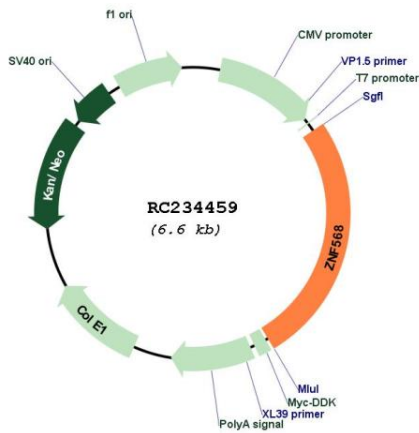
**Cytogenetics:** 19q13.12

**Protein Families:** Transcription Factors

**MW:** 67.1 kDa

**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 RC234459