

Product datasheet for **RC221709**

ZNF568 (NM_198539) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF568 (NM_198539) 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:

>RC221709 ORF sequence, codon optimized.
Due to the complexity of NM_198539, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGACCTCCCAAAGCAGCGTAATCTCCAACCTCATGCGTCACAATGGAGCGGCTCAGTCATATGATGGAGA
GGAAGGCATGGTGCAGTCAGGAATCTGCACTGAGCGAAGAGGAAGAGGACACAACCCGGCCACTGGAAC
CGTTACGTTTAAAGACGTAGCGGTGACTTGACACAGGAGGAGTGGGAACAGATGAAGCCGGCGCAGCGG
AATCTTTACCGAGACGTAATGCTCGAGAACTACTTAATCTTGTGACTGTGGGATGCCAGGTCACCAAGC
CCGATGTAATTTTTAAACTCGAGCAGGAGGAAGAACCATGGGTGATGGAGGAGGAAATGTTCCGGCGCCA
CTGCCCGAAGTGTGGGAGGTGGATGAACAGATCAAAAAACAGCAAGAGACACTTGTGCGAAAGGTGACG
TCAATTAGTAAAAAGATACTGATAAAGGAGAAGGTGATCGAATGTAAAAAGTTCGAAAAATTTCCCTC
TCAGTTCGACATAGTGACCTCCAGGCAAAGCTTCTACGACTGTGATTCTCTGGATAAAGGACTGGAGCA
TAATTTGGATCTTCTGAGATATGAGAAAGGATGTGTACGGGAGAAGCAGTCAAACGAGTTTGCAAACCG
TTTTACCACTGCGCAAGTTATGTGGTGACCCCTTTAAGTGTAAACAGTCCGGTCCAGGATTCAGCCATA
AGTTCGATCTGATCCGGCAGGAGAATTCATGCCGGGAAAAGCCCTATGAATGTAAGAGTGTGGGAA
GGCATTCTAGAAAAGAGAATCTGATTACTCAGAAAAATCCACACAGGCGAGAAAACCTATAAATGC
AACGAATGCGGGAAAGGCATTTATTAGATGAGTAACCTCATCAGACATCACCGGATCCACACAGGGGAAA
AACCATATGCATGTAAAGATTGCTGAAAAGCCTTCTCCAGAAAGCAATCTGATCGAGCACGAACGAAT
CCACACCGGCGAGAAAACCTACGAATGTAAGGAGTGCGGGAAGAGCTTTAGTCAAAGCAGAACCTGATT
GAGCATGAAAAATCCATACGGGCGAGAAGCCCTATGCTTGAACGAGTGTGGACGCGCTTCTCCCGGA
TGCAAGCGTGACACTTCATATGCGCAGCCATACAGGAGAAAAGCCTTATAAATGTAATAAGTGTGGAAA
GGCTTTTAGTCAGTGTTCCGCTTTATTATTATCATATGAGAAGCCATACGGGGAAAACCTACGTGTGT
AGTGAGTGCGGGAAAGCCTTCAGCCAGTCCAGTCTCTGACTGTCCACATGAGGAACACACCGCCGAGA
AGCCCTACGAATGTAAGGAATGTGGAAAGCATTACAGCAGAAAGGAGAACTTGATCACACATCAAAGAT
CCATACGGGCGAAAACCATACGAATGCAGCGAGTGTGGTAAGGCGTTTATTAGATGAGTAATCTGATA
AGACACCAACGCATTCATACCGGCGAAAAGCCTATGCTTGTACCGTGTGCGGCAAAGCCTTCTCACAAA
AGAGCAACCTGACAGAGCACGAGAAAATCCACACAGGCGAAAAGCCTTACCATTGCAATCAATGCGGCAA
GGCTTTAGCCAGAGGCAGAACCTGCTTGAACGAGAAAAGATCCACACTGGGAGAAAACCTTTCAAATGC
AATGAATGTGGAAAGCCTTCAGTCGATTTTCATCATTGACTCTGCACGTAAGGTCCACACCGGGGAAA
AACCGTACGAATGCAACAAATGTGGGAAGGCATTTCCAGTGTCTCTCTTGTATTATCCACATGAGATC
TCACACAGGCGAGAAGCCCTTTGAATGCAACGAGTGCAGAAAGGCTTTTCTCAACGAGCCAGTCTGTCT
ATCCATAAACGAGGCCACACGGGCGAGAGACATCAGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

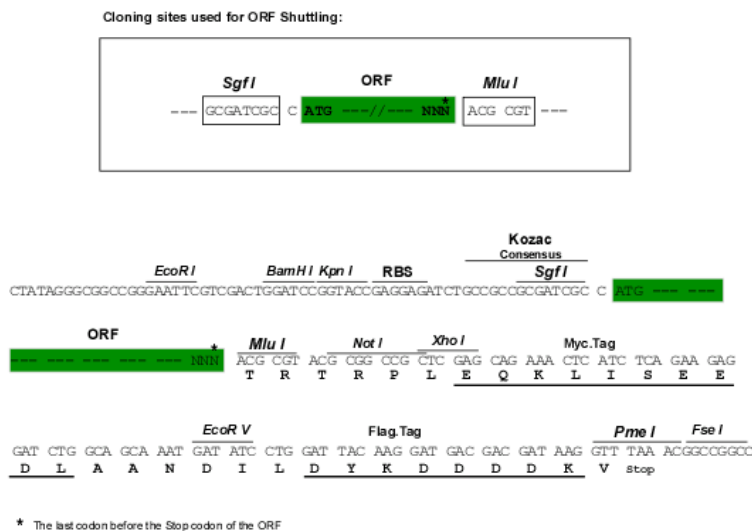
Protein Sequence: >RC221709 representing NM_198539
Red=Cloning site Green=Tags(s)

MTSQSSVISNSCVTMERLSHMMERKAWCSQESALSEEEEDTRPLETVTFKDVAVDLTQEWEQMKPAQR
 NLYRDVMLENYSNLVTVGCQVTKPDVIFKLEQEEEPWVMEEMFGRHCPVEVWEVDEQIKKQQETLVRKVT
 SISKKILIKEKVIIECKKVAKIFPLSSDIVTSRQSFYDCDSLDKGLEHNLDLLRYEKGCVREKQSNFEGKP
 FYHCASYVVTFFKCNQCQDFSHKFDLIRHERIHAGEKPYECKEKGKAFSRKENLITHQIHTGEKPYKC
 NECGKAFIQMSNLIIRHRIHTGEKPYACKDCWKAFSQKSNLIEHERIHTGEKPYECKEKGKAFSRKENL
 EHEKIHTGEKPYACNECGRAFSRMSVTLHMSHTGEKPYKCNKCGKAFSQCSVFIHMSHTGEKPYVC
 SECCKAFSQSSSLTVHMRNHTAEKPYECKEKGKAFSRKENLITHQIHTGEKPYECKEKGKAFIQMSNLI
 RHQRIHTGEKPYACTVCGKAFSQKSNLTEHEKIHTGEKPYHCNQCCKAFSQRQNLLEHEKIHTGEKPFKC
 NECGKAFSRISLTLHRSHTGEKPYECNKCGKAFSQCSLLIHMRSHTGEKPFECNECGKAFSQRASLS
 IHKRGHTGERHQVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198539

ORF Size: 1932 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_198539.2](#), [NM_198539.3](#), [NP_940941.2](#)

RefSeq Size: 4096 bp

RefSeq ORF: 1935 bp

Locus ID: 374900

UniProt ID: [Q3ZCX4](#)

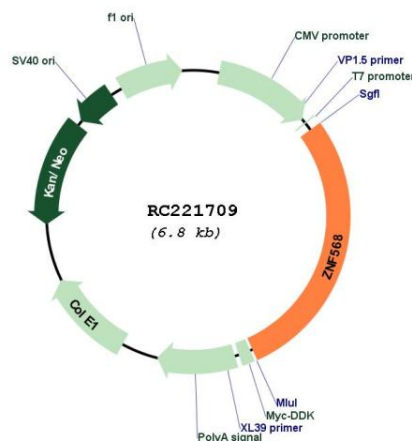
Cytogenetics: 19q13.12

Protein Families: Transcription Factors

MW: 74.4 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 RC221709