

Product datasheet for **RC213474**

ZNF586 (NM_017652) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF586 (NM_017652) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF586
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213474 ORF sequence, **codon optimized**.
 Due to the complexity of NM_017652, 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)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAGCTGCAGCCGCTCTGCGCGCTCCTGCTCAGAGCAGTGTACCTTTGAGGATGTAGCCGTGAATT
 TCAGCCTGGAAGAGTGGTCTTTGTTGAACGAGGCCAGAGATGCCTGTATAGGGATGTATGCTGGAGAC
 ACTGACCTGATTTCACTACTGGGGTGTGGCACGGCGGCAAGATGAGGCTGCCCCAAGCAAGCAGTCA
 ACATGCATCCACATTTATAAGGACCAGGGTGGACATAGCGGGGAGCGGCCATACGAATGCGGCGAGTACC
 GCAAACCTGTTCAAAAACAAATCATGCCTGACTGAGCCCAGAAGGGATCACAAGCACAGAAACGTCCGCAC
 CGGAGAGCGCCCATATGAGTGCTCTAAGTATGGAAGAACTCTCCATCAGAAGCCCACTCTCCATATTAC
 GAAAGATTTACACCGGCCAGAAGACATATGAATGTAGTGAGTGCGGCAAGAGCTTCCATCAAAGTAGCA
 GCCTGCTCCAAAGACAGACCTTCACACCAGAGAAAGACCATACGAATGTATTGAGTGCGGAAAAGCCTT
 TGCTGAAAAGAGTTCCCTGATAAATCACAGAAAGGTTCAATCCGGAGCTAAGCGCTACGAATGCAATGAA
 TGTGGTAAATCTTTGCATACACATCTAGCCTGATCAAACATCGCCGATTACACCGGAGAGAGGCCCT
 ATGAGTGTTCCGAATGTGGAAGATCTTCGCGGAGAATTCCTCACTGATAAAGCACCTGCGCGTCCATAC
 CGGGGAGCGACCTACGAATGTGTAGAGTGTGGGAAGTCTTCGCGGATCTTCTCACTCTCCAGCAT
 CAGCGGGTCCACACTAGGGAAGACCGTACGAGTGTAGCGAGTGTGGCAAGTCCTTTCCCTCAGAAGCA
 ACTTGATACACCATCAGCGGTTTCATACCGCGAGCGCCATGAATGCGGGCAGTGTGGAAGTCATTGAG
 CCGCAAGAGTTCCTGATTATCCATCTGAGAGTGCATACCGGAGAAAGCCTTATGAATGTTCTGACTGC
 GGCAAGTCCTTCGCCGAAAATAGCTCTCTCATCAAACTTGAGGGTGCACACCGGGGAACGGCCCTACG
 AGTGTATAGACTGCGGTAAGTCTTCCGACACAGCAGCTCTTTAGACGGCACCAGAGGTACACACAGG
 GATGCGCCCATATAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213474 representing NM_017652
 Red=Cloning site Green=Tags(s)

MAAAAALRAPAQSSVTFEDVAVNFSLEEWSLLEAQRCLYRDVMLETLTISSLGCWHGGEDEAAPSKQS
 TCIHIYKDQGGHSGERPYESGGEYRKL FKNKSCLTEPRDHKHNVRTGERPYECSKYGLFHQKPTLHHI
 ERFHTGQKTYECSECGKSFHQSSLLQRQTLHTRERPYESIECGKAF AEKSSLINHRKVHSGAKRYECNE
 CGKSFAYTSSLIKHRRIHTGERPYECSEGRSFAENSSLIKHLRVHTGERPYECVECGKSFRRSSSLQH
 QRVHTRERPYESCGKSFSLRSLNIHQRVHTGERHECGQCGKSF SRKSSLIHLRVHTGERPYECSDC
 GKSF AENSSLIKHLRVHTGERPYECIDCGKSFRRHSSFRHQRVHTGMRPYK

TRTRPLE**QKL**ISEED**LA**ND**ILDYK**DDDD**KV**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017652

ORF Size: 1206 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017652.2](#), [NM_017652.3](#), [NP_060122.2](#)

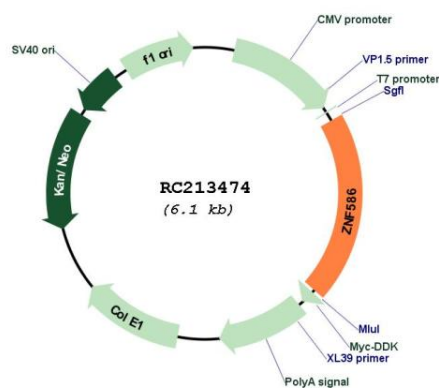
RefSeq Size: 2196 bp

RefSeq ORF: 1209 bp

Locus ID: 54807

UniProt ID: Q9NXT0
 Cytogenetics: 19q13.43
 Domains: KRAB
 Protein Families: Transcription Factors
 MW: 46.4 kDa
 Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213474