

Product datasheet for **RG213474**

ZNF586 (NM_017652) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF586 (NM_017652) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF586
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213474 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)

TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAGCTGCAGCCGCTCTGCGCGCTCCTGCTCAGAGCAGTGTACCTTTGAGGATGTAGCCGTGAATT
 TCAGCCTGGAAGAGTGGTCTTTGTTGAACGAGGCCAGAGATGCCTGTATAGGGATGTGATGCTGGAGAC
 ACTGACCTGATTTCACTACTGGGGTGTGGCACGGCGGCAAGATGAGGCTGCCCCAAGCAAGCAGTCA
 ACATGCATCCACATTTATAAGGACCAGGGTGGACATAGCGGGGAGCGGCCATACGAATGCGGCGAGTACC
 GCAAACCTGTTCAAAAACAAATCATGCCTGACTGAGCCCAGAAGGGATCACAAGCACAGAAACGTCCGCAC
 CGGAGAGCGCCCATATGAGTGCTCTAAGTATGGAAGAACTCTTCCATCAGAAGCCCACTCTCCATATTAC
 GAAAGATTTACACCGGCCAGAAGACATATGAATGTAGTGAGTGCGGCAAGAGCTTCCATCAAGTAGCA
 GCCTGCTCCAAAGACAGACCTTTCACACCAGAGAAAGACCATACGAATGTATTGAGTGCGGAAAAGCCTT
 TGCTGAAAAGAGTTCCCTGATAAATCACAGAAAGGTTCAATCCGGAGCTAAGCGCTACGAATGCAATGAA
 TGTGGTAAATCTTTGCATACACATCTAGCCTGATCAAACATCGCCGATTACACCGGAGAGAGGCCCT
 ATGAGTGTTCCGAATGTGGAAGATCTTTCGCCGAGAATTCCTCACTGATAAAGCACCTGCGCGTCCATAC
 CGGGGAGCGACCTACGAATGTGTAGAGTGTGGGAAGTCTTCCGGCGATCTTCTCACTCCTCCAGCAT
 CAGCGGGTCCACACTAGGGAAGACCGTACGAGTGTAGCGAGTGTGGCAAGTCCTTTCCCTCAGAAGCA
 ACTTGATACACCATCAGCGGTTTCATACCGCGAGCGCCATGAATGCGGGCAGTGTGAAAAGTCATTGAG
 CCGCAAGAGTTCCTGATTATCCATCTGAGAGTGCATACCGGAGAAAGCCTTATGAATGTTCTGACTGC
 GGCAAGTCCTTCGCCGAAAATAGCTCTCTCATCAACACTTGAGGGTGCACACCGGGGAACGGCCCTACG
 AGTGTATAGACTGCGGTAAGTCCTTCGACACAGCAGCTCCTTTAGACGGCACCAGAGGTACACACAGG
 GATGCGCCCATATAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

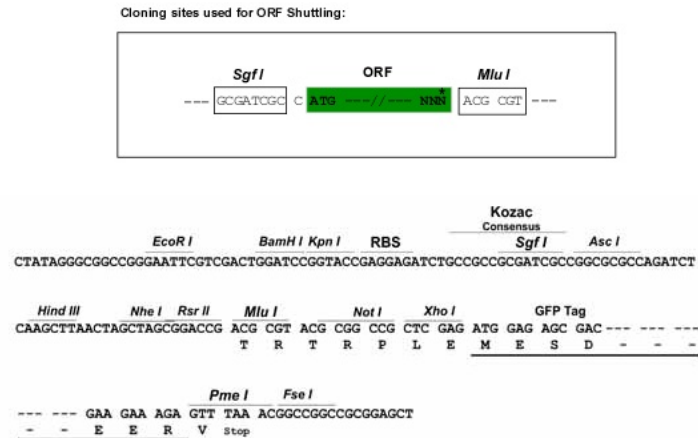
>RG213474 representing NM_017652
 Red=Cloning site Green=Tags(s)

MAAAALRAPAQSSVTFEDVAVNFSLEEWSSLLNEAQRCLYRDVMLETLTISSLGCWHGGEDEAAPSKQS
 TCIHIYKDQGGHSGERPYESGGEYRKL FKNKSCLTEPRDHKHNVRTGERPYECSKYGLFHQKPTLHHI
 ERFHTGQKTYECSECGKSFHQSSLLQRQTLHTRERPYESIECGKAFAEKSSLINHRKVHSGAKRYECNE
 CGKSFAYTSSLIKHRRHTGERPYECSEGRSFAENSSLIKHLRVHTGERPYECVECGKSFRRSSSLQ
 QRVHTRERPYESCGKSFSLRSNLHHQVHTGERHECGQCGKFSRKSLLIHLRVHTGERPYECSDC
 GKSFENSSLIKHLRVHTGERPYECIDCGKSFRRSSFRHQRVHTGMRPYK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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.

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

RefSeq Size: 2196 bp

RefSeq ORF: 1209 bp

Locus ID: 54807

UniProt ID: [Q9NXT0](#)

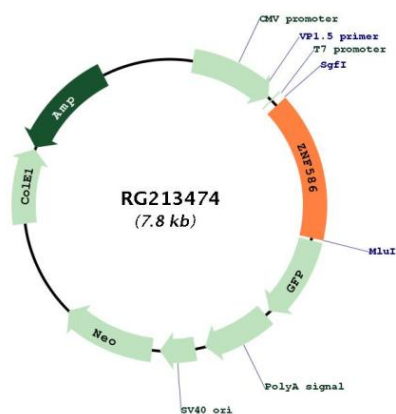
Cytogenetics: 19q13.43

Domains: KRAB

Protein Families: Transcription Factors

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG213474