

Product datasheet for **RG213801**

ZNF419A (ZNF419) (NM_001098494) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF419A (ZNF419) (NM_001098494) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF419
Synonyms:	ZAPHIR; ZNF419A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213801 ORF sequence, **codon optimized**.
Due to the complexity of NM_001098494, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCGGCCGCTCTCCGGGATCCCGCCAGGTACCTGTCGCCCGCGACCTTCTGACCGATCATGAGG
 AACAGGGCTATGTACTTTCGAAGACGTGGCTGTATATTTCTCCAAGAAGAGTGCCGCTGCTGGATGA
 TGCCAGCGGCTGCTGTACCGGAATGTGATGCTCGAAAACCTCACCTTCTGGCCAGTCTGGGGTCTGG
 CACGGAGCCGAAGCTGAAGAAGCTCCAGAACAATTGCCTCTGTTGGCCTGCTCTCAAGCAATATCCAAC
 AGCACCAGAAGCAGCACTGCGGCCGAGAAACCGCTTAAGAGGCAAGAAGGAAGAGTACCAGTGCTGAGATC
 TTGTAAGTTTCATCTGTCCGAAAAATCCCTGCAGAGCAGAGAAGTGGGAAGGCCCTGCTGATCAGCAGT
 GGCGTTCTGAAGCATCAAGTTACCCACACAGCGGAGAAATCACACAGGTCTAGCAAGAGTAGGGAGGCAT
 TCCACGCCGAAAGAGACACTACAAATGCAGCGAGTGCAGTAAGGCCCTTGGACAAAAATACCTCCTGGT
 GCAGCACCAGCGACTCCATGCCGCAAGAAGACATACGAGTGCAGTGAGTGCGGGAAACTGTTTCGCGAT
 ATGTCTAACCTTTTTATTCACCAGATTGTCATACTGGGAGCGCCCTACGGATGTTCTAATTGTGGGA
 AAAGCTTAGCAGAAACGCCATCTGATAGAGCACCAGAGAGTGCATACAGGCGAAAAACCATTTACCTG
 TTCAGAGTGCAGCAAGGCCCTCCGGCATAACTCAACATTGGTACAGCACCACAAAAATCCACACAGGATC
 AGGCCCTATGAATGCTCTGAATGCGGAAAAATGTTTTTCATTCAATAGCAGCCTGATGAAGCACCAGAGGA
 TACATACCGGAGAACGGCCATATAAGTGTCTCCGAGTGCAGTAAATTCTATTACATAAAGAGTAACCTGAT
 TAAACATTGGAGGGTGCACACTGGGAAACGGCCTTATAAGTGTCCGATTGCGGTAATTTCTCACACAA
 TGCTCTAGTCTCATGCAGCACCAGAAAGTGCATACCGGGGAGAAACCTTTAAGTGTAAACGAATGTGGGA
 GGTCTTTTCGGGAAAATTTACTCTTGTGACAGATCAAAGGGTCCACACTGGTGCCAAACCATATGAATG
 TAGGGAATGTGGAAAGTTTTTCAGTCAGAGTAGCACCTTATGCAGCACCAGAAAGTGCACATAGGAGAG
 AAGCCATTCAAGTGAATGAATGCGGACGCTCTTCAGGAAAAACAGCTCTTTGGTTAAACATCAGCGGG
 TCCATACCGGAGCTAAACCTACGAATGTCGCGAGTGTGGCAAAATCTTCGCCATAATTCTCCCTCTT
 CAAACATCGGCGGATCCATACAGGGGAGATGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213801 representing NM_001098494
 Red=Cloning site Green=Tags(s)

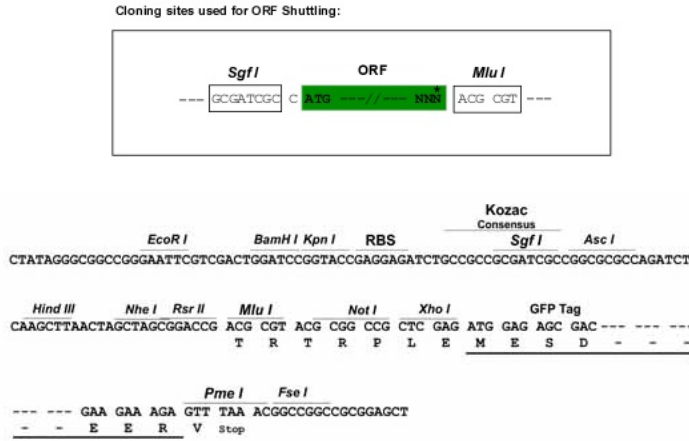
MAAAALRDPAQVPVAADLLTDHEEQGYVTFEDVAVYFSQEEWRLLDDAQRLLYRNVMLENFTLLASLGCW
 HGAEAEAEPEQIASVGLLSSNIQQHQKQHCGEKPLKRQEGRPVPLRSCKVHLSEKSLQSREVGKALLISS
 GVLKHQVHTGKSHRSSKSREAFHAGKRHYKCECGKAFGQKYLLVQHQRHLHAGKKTIECSECGKLFDRD
 MSNLFIHQIVHTGERPYGCSNCGKFSRNAHLIEHQRVHTGKPFCTCECGKAFRHNSTLVQHHKIHTGV
 RPYECSECGKLFNFSSLMKHQRIHTGERPYKCECGKFYSHKSNLIKHWVHTGERPYKCSDCGKFFFTQ
 CSSLMQHQQVHTGKPFKNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFSSTLMQHRKVHIGE
 KPFCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRRRIHTGEMQ

TRTRPLE - GFP Tag - V

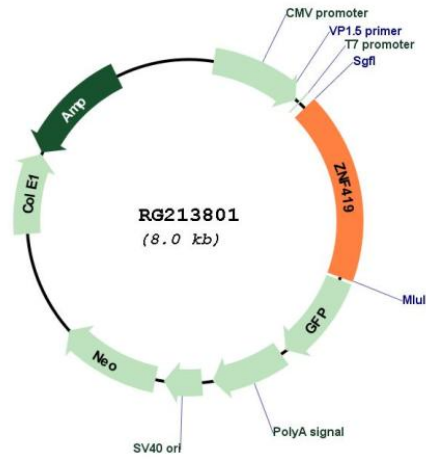
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001098494

ORF Size:	1434 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:	<ol style="list-style-type: none">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_001098494.1 , NP_001091964.1
RefSeq Size:	2285 bp
RefSeq ORF:	1437 bp
Locus ID:	79744
UniProt ID:	Q96HQ0
Cytogenetics:	19q13.43
Protein Families:	Transcription Factors
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]