

## Product datasheet for **RG234413**

### ZNF382 (NM\_001256838) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF382 (NM_001256838) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF382
Synonyms:	KS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234413 representing NM\_001256838  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTCAGGGATCAGTGTCAAGGATGTGACTGTGGACTTACCCAGGAGGAGTGGCAGCAACTAG  
 ACCCTGCTCAGAAGCGCTTTACAGGGATGTGATGTTGGAAAACATTGCCACTTCGTATCTGTGGGGTT  
 TCACATGGCTAAGCCTGATATGATCCGCAAGTTGGAACAAGGAGAAGAGCTATGGACACAGAGAATTTTT  
 CCAAGTTACAGCTACCTAGAAGAAGATGGGAAAACGAAGATGTCTTAGTGAAGTTCAAAGAATACCAAG  
 ACAGGCATTCTAGACCCCTCATATTCATCAACCACAAAAACTAATTAAGGAGAGAAGTAATATTTATGG  
 TAAACATTTACTCTAGCAAGAACCGTATTTCAAAAACAATACTATGTGAATATAAACCTGATGGAAAA  
 GTTTTGAAAAATATTTCAGAAGTAGTCATTAGAAATATAAGCCCCATAAAAAGAGAAGTTTGGTGACAGTA  
 CTGGATGGGAGAAATCACTCCTCAATACCAAGCATGAGAAAATTCATCCTGCAGTGAATCTCCATAAACA  
 AACAGAAAAGATTCTCAGTGGTAAACAGGAGCTTATTCAGCATCAGAAGTTCAAGCTCCAGAGCAACCA  
 TTTGACCATAATGAATGTGAAAAATCCTCCTGATGAAAGGAATGCTATTTACACATACTAGAGCTCACA  
 GAGGAGAAAAGAACCTTTGAATACAATAAAGATGGAATTGCCTTCATAGAAAAGTCAAGCCTCAGTGTCCA  
 TCCAAGTAATCTTATGGAAAAGAAGCCCTTCGCTACAACAAATATGGGAAATTCCTCTGCAGAAAAGCCT  
 GTTTTTATTATGCCTCAGAGACCTCAAACAGAAGAGAAACCTTTCACTGTCTTACTGTGGGAATAACT  
 TTAGAAGGAAGTCATACCTCATTGAACATCAGCGAATTCACACAGGTGAAAAACCTTATGTTTGCAATCA  
 ATGTGGAAAGGCCTTCCGTCAGAAGACAGCCCTCACCTTCATGAGAAAACACATATAGAGGGGAAACCC  
 TTTATTTGTATCGATTGTGGGAAGTCTTCCGCCAGAAGGCCACCCTCACTAGACATCACAAAACACATA  
 CGGGGGAGAAAAGCCTATGAATGCCTCAGTGTGGAAGTGCCTTTAGGAAGAAGTCATACCTCATTGATCA  
 CCAGAGAATCACACAGGAGAGAAAACCGTATCAGTGTAATGAGTGTGGGAAGGCATTTATCCAGAAGACA  
 ACCCTCACTGTTATCAGAGAATCACACAGGAGAGAAAACCTATATTTGCAATGAATGTGGGAAGTCTCT  
 TCTGCCAAAAGACAACCCCTCACTCTCCACCAGAGAATTCACACGGGGGAAAAACCTATATTTGTAATGA  
 ATGTGGGAAGTCTTCCGCCAGAAGGCAATCCTCACTGTTATCAGAGAATACATACAGGAGAAAAATCC  
 AATGGGTGTCCTCAGTGTGGGAAAGCCTCAGTAGGAAATCAAACCTCATTGCCATCAGAAAACCTCACA  
 CAGGCGAGAAAACCATATGAATGTAACAGTGTGGGAAGTCTTCAGTTGTAAGTCAAACCTCATTGTCCA  
 TCAGAAAACCTACAAGGTAGAAAACACGGGAATTCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234413 representing NM\_001256838  
 Red=Cloning site Green=Tags(s)

MSQGSVSFKDVTVDFTQEEWQQLDPAQKALYRDVMLENYCHFVSVGFHMAKPD MIRKLEQGEELWTQRIF  
 PSYSYLEEDGKTEDVLVKFKEYQDRHSRPLIFINHKKLIKERSNIYGKFTLGKNRISKILCEYKPDGK  
 VLKNISELVIRNISPIKEKFGDSTGWKESLLNTKHEKIHPAVNLHKQTERVLSGKQELIQHQKVAPEQP  
 FDHNECEKSFLMKGMLFTHTRAHRGERTFEYNKDGIAFIEKSSLSVHPSNLMKPKSAYNKYGF LCRKP  
 VFIMPQRQPTEEKPFHCPYCGNNFRKSYLIEHQRIHTGEKPYVCNQC GKAFRQKTALTLHEKTHIEGK  
 FICIDCGKSFRQKATLTRHHKTHTEKAYECPQCGSAFRKSYLIDHQRTHTEKPYQCNECGKAFIQKT  
 TLTVHQRTHTEKPYICNECGKSFQKTTLTLHQRTHTEKPYICNECGKSFQKAILTVHHRHTGKES  
 NGCPQCGKAFSRKSNLIRHQKTHTEKPYECKQCGKFFSCKSNLIVHQKTHKVETGTGIQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256838

**ORF Size:** 1647 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\\_001256838.2](#)

**RefSeq Size:** 2819 bp

**RefSeq ORF:** 1650 bp

**Locus ID:** 84911

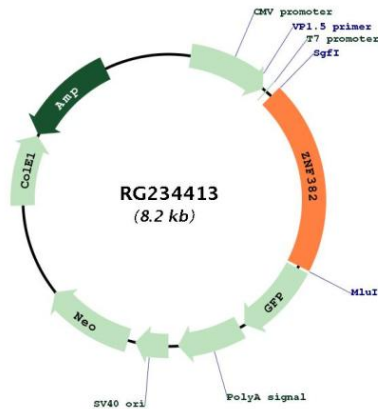
**UniProt ID:** [Q96SR6](#)

**Cytogenetics:** 19q13.12

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a KRAB domain zinc finger transcription factor (KZNF). KZNFs play critical roles in the regulation of many cellular processes including differentiation, proliferation and apoptosis. The encoded protein inhibits activating protein 1 (AP-1) and nuclear factor kappa-B (NF-kB) signaling and may function as a tumor suppressor in multiple carcinomas. This gene is found in a cluster with other zinc finger protein genes on the long arm of chromosome 19, and alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

**Product images:**



Circular map for RG234413