

Product datasheet for **RG227102**

ZNF384 (NM_001135734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF384 (NM_001135734) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF384
Synonyms:	CAGH1; CAGH1A; CIZ; ERDA2; NMP4; NP; TNRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227102 representing NM_001135734
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAATCTCACTTCAATTCTAACCCGTACTTCTGGCCTTCTATCCCCACAGTCTCAGTCTCAGATCG
 AGAACACAATGTTTCATCAACAAGATGAAGGATCAGCTGTTGCCAGAGAAGGGCTGTGGTCTGCCCCACC
 TCACTACCCACCTTGTGACAGTGCCTGCCTCAGTGTCCCTGCCCTCAGGCATCAGTATGGACACAGAG
 TCCAAGTCAGACCAGCTGACCCACACAGCCAAGCGTCCGTTACCCAGAAATACACGGTGGTCCCTGTGC
 CGTCTACAGGACTGATGACTGCTGGAGTCTCCTGTTCTCAGAGGTGGAGAAGAGAAGGGAGTCAATCAAG
 GGGTCCGGGTTTGGTAATCACGTCCCCCTCAGGCTCTCTTGTGACCACAGCATCATCAGCTCAGACCTTC
 CCCATTTCCGCTCCCATGATTGTCTCAGCTTTCCTCCCTGGCTCACAGCCCTGCAGGTTGTCCCTGACC
 TCTCCAAGAAGGTAGCATCGACCCTAACCGAGGAAGGAGCGGAGGTGGTGGAGGTGCCAGTGTGGC
 TCCTAAGCCACCCCGGGCCGGAAGAAGAAGCGGATGCTGGAATCAGGGCTGCCCGAGATGAATGACCTT
 TATGTCCTCTCCCTGAGGATGATGATGACCATCAGAAAGACGGCAAGACCTACAGGTGCCGGATGTGCT
 CACTGACATTCTACTCCAAGTCGGAGATGCAGATCCACTCCAAGTCACACACCGAGACCAAGCCCCACAA
 GTGCCACATTGCTCCAAGACCTTCGCCAACAGCTCCTACCTGGCCCAGCACATCCGTATACACTCAGGG
 GCTAAGCCCTACAGTTGTAACCTTCTGTGAGAAATCCTTCCGCCAGCTCTCCACCTTCAGCAGCACACCC
 GGATCCACTCCAAGATGCACACGGAGACCATCAAGCCCCACAAGTGCCCCCACTGCTCCAAGACCTTCGC
 CAACACCTCTACCTGGCCCAGCACCTCCGTATCCACTCGGGGCCAAGCCCTACAACCTGTTCTACTGC
 CAGAAGGCCTTCGCCAGCTCTCCACCTCCAGCAGCACACAGAAATCCACACTGGTGATAGACCATACA
 AATGTGCACACCCAGGCTGTGAGAAAGCTTACACAACCTCCAATCTGCAGTCCCACAGACGGCAACA
 CAACAAAGATAAACCCCTTCAAGTGCACAACTGTCATCGGGCGTACACGGATGCAGCCTCACTAGAGGTG
 CACCTGTCTACGCACACAGTGAAGCATGCCAAGGTGTACACCTGCACTATCTGCAGTCCGGCATAACAT
 CAGAAACATACCTTATGAAACATATGCGCAACACAACCCGCCTGATCTTACGCAACAGGTGCAGGCAGC
 AGCAGCAGCGGCAGCAGTGGCCCAGGCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCC
 CAGGCCAGGCCAGGCCCTCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC
 AGCAACAGCCACCACACTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGTGGTGGGGACAGCAA
 TCCCAACCCTCCACCCAGTGTCTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATC
 TGCTCACTGTCACCACCAGCACCATCCAGGTGGAGCACCTGGCCAGCTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227102 representing NM_001135734
 Red=Cloning site Green=Tags(s)

MEESHFNPNFYFWSIPTVSGQIENTMFINMKDQLLPEKGCGLAPPHYPTLLTVPASVSLPSGISMDTE
 SKSDQLTPHSQASVTQNIIVVPVSTGLMTAGVSCSQRWRREGSQRGPGLVITSPSGSLVTTASSAQTF
 PISAPMIVSALPPGSQALQVVPDL SKKVASTL TEEGGGGGGGGSVAPKPPRGRKKRMLSEGLPEMNDP
 YVLSPEDDDDHQKDGKTYRCRMSLTFYSKSEMQIHSKSHETKPHKCPHCSKTFANSSYLAQHIRIHS
 AKPYSCNFCEKSFRLSHLQQHTRIHSKMHTETIKPHKCPHCSKTFANTSYLAQHLRIHSGAKPYNCSY
 QKAFRQLSHLQQHTRIHTGDRPYKCAHPGCEKAF TQLSNLQSHRRQHNDKPFKCHNCHRAYTDAASLE
 VHLSTHTVKHAKVYTCTICSRAYTSETYLMKHMRRHNPPDLQQVQAAAAAAAAVAQAQAQAQAQAQA
 QAQAQASQASQQQQQQQQQQQQPPPHFQSPGAAPQGGGGDSNPNPPPPQCSFDLTPYKTAEHKDI
 CLTVTTSTIQVEHLASS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_001135734.2
RefSeq Size:	3189 bp
RefSeq ORF:	1734 bp
Locus ID:	171017
UniProt ID:	Q8TF68
Cytogenetics:	12p13.31
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a C2H2-type zinc finger protein, which may function as a transcription factor. This gene also contains long CAG trinucleotide repeats that encode consecutive glutamine residues. The protein appears to bind and regulate the promoters of the extracellular matrix genes MMP1, MMP3, MMP7 and COL1A1. Studies in mouse suggest that nuclear matrix transcription factors (NP/NMP4) may be part of a general mechanical pathway that couples cell construction and function during extracellular matrix remodeling. Alternative splicing results in multiple transcript variants. Recurrent rearrangements of this gene with the Ewing's sarcoma gene, EWSR1 on chromosome 22, or with the TAF15 gene on chromosome 17, or with the TCF3 (E2A) gene on chromosome 19, have been observed in acute leukemia. A related pseudogene has been identified on chromosome 7. [provided by RefSeq, Apr 2011]