

Product datasheet for **RG204908**

ZNF289 (ARFGAP2) (NM_032389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF289 (ARFGAP2) (NM_032389) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF289
Synonyms:	IRZ; NBLA10535; ZFP289; ZNF289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204908 representing NM_032389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTTAAGAGGCTTCGCGCAGTTCCAACCAACA
 AGGCTGTTTCGACTGCGCGCCAAAGAATCCGAGTTGGCCAGCATCACGTACGGTGTTCCTTGTGCAT
 TGAAGTTCGCGGGTGCACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGAGTTGGATTCC
 AACTGGAAGTGGTCCAGCTGAGGTGTATGACAGTTCGCGGGAATGCCAATGCGACGGCTTTTTTCGCC
 AACATGGATGCACAGCCAATGATGCCAACACCAATAATAAGCCGAGCTGCCAGATGTACCGGGAGAA
 GATCCGGCAGCTGGGAGTGCAGCCCTGGCTAGGCATGGCACTGATCTTTGGATAGACAACATGAGTAGT
 GCCGTTCTAATCACTCCCAGAGAAGAAGGACTCTGATTTCTCACAGAACACACTCAACCCCTGCCT
 GGGATGCGCCAGCCACTGAGCCTTCAGGGACCCAGCAGCCAGCCCGTCTACAGAGAGCAGTGGCCTGGC
 ACAGCCGAGCATGGCCCAACACAGACCTGCTTGGCACCTCACCAAAGCCTCACTGGAAGTAAAAGC
 TCCATCATTGGCAAGAAGAAGCCAGCAGAGCTAAGAAAGGGCTGGGTGCCAAGAAGGCCATAGGGGCC
 AGAAGGTGAGCAGCCAGAGCTTCAGTGAGATTGAGCGGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCA
 GCAGGCAGCCGATGCCAAGAAGCAGGCGGAGGAGTCCATGGTCGCTCCATGCGTCTGGCCTACCAGGAG
 CTCCAGATTGATCGTAAGAAAGAGGAAAAGAAGCTACAGAATCTGGAAGGGAAGAAGCGAGAGCAGGCAG
 AAAGTTGGGCATGGGCTTGGTATCCCGAAGCTCTGTCTCCACTCCGTGCTGTCTGAGATGCAGGTGAT
 TGAGCAGGAAACCCAGTGAAGTCAAAAATCCTCTCGCTCGCAGCTGGACTGTTTGACGATGTTGGTACT
 TTCGCTCTGGACCCCAAGTACAAGGACAATCCCTTTCTTAGGGGAAAGCTTTGGCTCCCGCTGGG
 ATACAGATGCTGCCTGGGTATGGACAGGTTAGAGGAGAAGGAGCCAGAAGTGACCATCTCAAGCATCCG
 GCCTATTTTCAGAAAGAGCCACAAACCGGAGGGAAGTGGAGAGCCGAGCTCAGGCCTCGAGTCTAGTGAG
 GCGCGTCAGAAATTCGCAGGAGCCAAAGCCATCTCATCTGACATGTTCTTTGGGCGGAGGTGGATGCGG
 AGTATGAGGCCAGGTCTCGGCTGCAGCAGCTCTCAGGCAGCAGTCCATCAGCTCTTCAGACCTCTTTGG
 GGACATGGATGGAGCTCACGGAGCAGGAAGTGTATCTCTGGGAAAGTGTCTGCTACAGCGGACATTGCC
 CAGTTTAAGCAGGGTGTCAAGTCTGTGGCTGGGAAAATGGCTGTGCTGGCCAATGGTGTGATGAATTCCT
 TGCAGGATCGCTACGGTTCCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204908 representing NM_032389
 Red=Cloning site Green=Tags(s)

MAAEPNKTEIQTLFKRLRAVPTNKACFDGAKNPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDS
 NWNWFQLRCMQVGGNANATAFFRQHGCTANDANTKYNSRAAQMYREKIRQLGSAALARHGTDLWIDNMSS
 AVPNHSPEKKDSDFTEHTQPPAWDAPATEPSGTQQPAPSTESSGLAQPEHGPNTDLLGTS PKASLELKS
 SIIGKKKPAAAKGLGAKKGLGAQKVSSQSFSEIERQAQVAEKLRQQAADAKKQAEESMVASMLRAYQE
 LQIDRKKEEKLNLEGGKREQAERLGMGLVSRSSVSHSVLSEMQVIEQETPVS AKSSRSQDLDFDDVGT
 FASGPPKYKDNPFSLGESFSGSRWDTDAAWGMDRVEEKEPEVTISSIRPISERATNRREVESRSSGLESSE
 ARQKFAGAKAISSDMFFGREVD AEYEARSRLQQLSGSSAISSSDLFGDMDGAHGAGSVSLGNVLP TADIA
 QFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032389

ORF Size: 1563 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_032389.5](#)

RefSeq Size: 2803 bp

RefSeq ORF: 1566 bp

Locus ID: 84364

UniProt ID: [Q8N6H7](#)

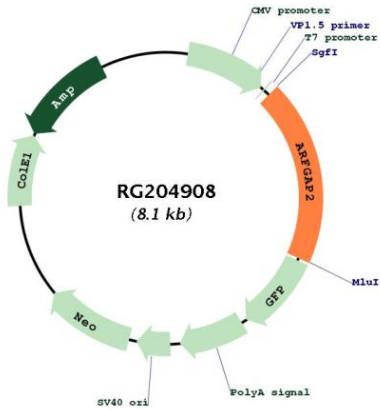
Cytogenetics: 11p11.2

Domains: ArfGap

Protein Pathways: Endocytosis

Gene Summary: GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1). Implicated in coatomer-mediated protein transport between the Golgi complex and the endoplasmic reticulum. Hydrolysis of ARF1-bound GTP may lead to dissociation of coatomer from Golgi-derived membranes to allow fusion with target membranes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204908