

Product datasheet for **RG234276**

ZNF289 (ARFGAP2) (NM_001242832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF289 (ARFGAP2) (NM_001242832) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234276 representing NM_001242832
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTTAAGAGGCTTCGCGCAGTTCCAACCAACA
 AGGCTGTTTCGACTGCGGCGCCAAGAATCCGAGTTGGGCCAGCATCACGTACGGTGTTCCTTGTGCAT
 TGAAGTTCGCGGGTGCACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGATTGGATTCC
 AACTGGAAGTGGTCCAGCTGAGGTGTATGCAGGTGCGCGGGAATGCCAATGCGACGGCTTTTTTCGCC
 AACATGGATGCACAGCCAATGATGCCAACACCAATAATAAGCCGAGCTGCCAGATGTACCGGGAGAA
 GATCCGGCAGCTGGGAGTGCAGGCTGGCTAGGCATGGCACTGATCCCCCTGCCTGGGATGCGCCAGCC
 ACTGAGCCTTCAGGGACCCAGCAGCCAGCCCGTCTACAGAGAGCAGTGGCTGGCACAGCCGGAGCATG
 GCCCAACACAGACCTGCTTGGCACCTACCCAAAGCCTCACTGGAAGTAAAAGCTCCATCATTGGCAA
 GAAGAAGCCAGCAGCAGTAAGAAAGGGCTGGGTGCCAAGAAAGCCTAGGGGCCAGAAGTGAGCAGC
 CAGAGCTTCAGTGAAGTTCGAGCGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCAGCAGGAGCCGATG
 CCAAGAAGCAGGCGGAGGAGTCCATGGTCGCTCCATGCGTCTGGCTACAGGAGCTCCAGATTGATCG
 TAAGAAAGAGGAAAAGAGCTACAGAATCTGGAAGGGAAGAAGCGAGAGCAGGAGAAAGTTGGGCATG
 GGCTTGGTATCCCGAAGCTCTGTCTCCCACTCCGTGCTGTCTGAGATGCAGGTGATTGAGCAGGAAACCC
 CAGTGAGTGCAAAATCCTCTCGCTCGCAGCTGGACTTGTGGACGATGTTGGTACTTTCGCTCTGGACC
 CCCAAAGTACAAGGACAATCCCTTTTCTTAGGGGAAAGCTTTGGCTCCCGCTGGGATACAGATGCTGCC
 TGGGTATGGACAGGGTAGAGGAGAAGGAGCCAGAAGTGACCATCTCAAGCATCCGGCCTATTTAGAAA
 GAGCCACAAACCGAGGGAAGTGGAGAGCCGAGCTCAGGCTCGAGTCTAGTGAGGCGGTCAGAAAT
 CGCAGGAGCCAAAGCCATCTCATCTGACATGTTCTTTGGCGGGAGGTGGATGCGGAGTATGAGGCCAGG
 TCTCGGCTGCAGCAGCTCTCAGGAGCAGTGCCATCAGCTCTTACAGCTCTTTGGGACATGGATGGAG
 CTCACGGAGCAGGAAGTGTATCTCTGGGAACTGCTGCCTACAGCGGACATTGCCAGTTAAGCAGGG
 TGTCAAGTCTGTGGTGGGAAAATGGCTGTGCTGGCCAATGGTGTGATGAATTCCTTGCAGGATCGCTAC
 GGTTCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234276 representing NM_001242832
 Red=Cloning site Green=Tags(s)

MAAEPNKTEIQTLFKRLRAVPTNKACFDGAKNPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDS
 NWNWFQLRCMQVGGNANATAFFRQHGCTANDANTKYNRAAQMYREKIRQLGSAALARHGTDPDPAWDAPA
 TEPSTGQQPAPSTESSGLAQPEHGPNLDLLGTS PKASLELKSSIIIGKKKPAAAKGLGAKKGLGAQKVSS
 QSFSEIERQAQVAEKLREQQAADAKKQAEESMVASMLAYQELQIDRKKEEKLQNLGKREQAERLGM
 GLVSRSSVSHSVLSEMQVIEQETPVSAKSSRSQDLDFDDVGTAFSGPPKYKDNPFSLGESFSGSRWDTDAA
 WGMDRVEEKEPEVTISSIRPISERATNRREVESRSGLESSEARQKFAKAKAISSDMFFGREVDAYEAR
 SRLQQLSGSSAISSSDLFGDMDGAHGAGSVSLGNVLPADIAQFKQGVKSVAGKMAVLANGVMNSLQDRY
 GSY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001242832

ORF Size: 1479 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_001242832.1](#), [NP_001229761.1](#)

RefSeq Size: 2955 bp

RefSeq ORF: 1482 bp

Locus ID: 84364

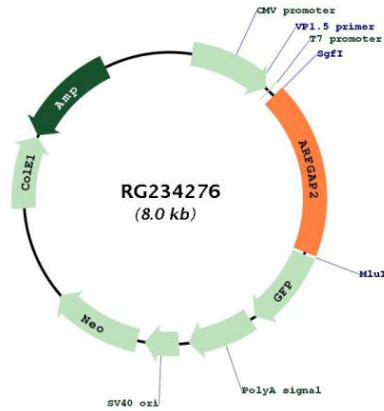
UniProt ID: [Q8N6H7](#)

Cytogenetics: 11p11.2

Protein Pathways: Endocytosis

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

Product images:



Circular map for RG234276