

## Product datasheet for **RG202376**

### **ZNF408 (NM\_024741) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | ZNF408 (NM_024741) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | ZNF408                                    |
| Synonyms:                 | EVR6; RP72                                |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide  
Sequence:**

>RG202376 representing NM\_024741  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGAGGCGGAGGAGCTGCTCTTGGAGGGGAAGAAGGCGCTGCAACTCGCCCGAGCCGCGCCTGG  
 GCCTGGACTTAGGATGGAACCTTCCGGAGAAGGCTGTACGCAGGGCCTCAAAGACGTCCCACCCGAGCC  
 GACCCGAGACATCCTCGCTTTAAGAGCCTTCCCCGGGGCTTGGCCCTTGCCCTCACTCGCCAAGGAA  
 CAGCGCTTGGGGGTCTGGTGTGTCGGGGACCCCTGCAGCCCGGCCTGCTGTGGGGCCGCTGGAAGAGG  
 AGTCTGCCTCAAGGAGAAGGGCGAGGGAGTAAAGCCACGGCAGGAGGAGAACCTGTCTTAGGCCCATG  
 GGGAGACGTGTGTGCTGTGAGCAGAGTTCTGGCTGGACTAGCTTGGTACAACGGGGCAGGCTGGAGAGT  
 GAGGGAATGTGGCCCCAGTGCGGATCAGCGAGAGGCTTCATCTGCAAGTGTACCAGCTGGTGTGCCAG  
 GCTCTGAACTGCTGCTGTGGCCCCAGCCTTCTCTGAGGGCCCAAGTCTACCCAGCCTGGGCTGGACAA  
 AGAGGCAGCTGTAGCAGTGGTGACAGAAGTGGAGTCTGCTGTACAGCAGGAAGTGGCCTCCCTGGGGAG  
 GATGCAGCAGAACCTTGATAGATCCTGGTTCACAGTCACCTCTGGCATCCAGGCAGAGAATATGGTGA  
 GCCCTGGACTTAAGTTCCCAACCCAGGACCGAATTTCCAAGGATAGCCAGCCACTTGGCCATTGCTTCA  
 GGATGGCGACGTGGATGAGGAATGCCCGGCCAGGCACAGATGCCACCTGAACTTCAGAGCAATTCGGCT  
 ACCCAGCAGGACCCAGATGGCAGTGGAGCCAGTTTCTCATCTTCTGCCAGGGGCAACCCAGCCGATGGCT  
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 CCAGCAGTCTGGCTTCCCTACACTCTCGCGAGCCCTCCTGGCCAGCAGGAAGTCCCCAAGCAGGGG  
 CGACGGTACCGGTGTGGAGAGTGTGGCAAGGCATTCTACAGCTGTGCCACCTAAAGAAGCAGCATTTG  
 TGCACACGGGCCACAAGCCCTTTCTTTGCACTGAGTGTGGCAAGAGCTATAGCTCAGAGGAGAGCTTCAA  
 AGCCCATATGCTGGGCCACCGTGGGGTGCGGCCCTTCCCTGTCCACAATGCGACAAGGCCTATGGCACC  
 CAGCGAGACCTCAAAGAGCACCAGGTGGTACATTCAGGTGCCCGGCCCTTTGCTTGTGACCAGTGTGGCA  
 AGGCCTTTGCCCGCCGGCCCTCCCTGCGGCTGCATCGCAAGACCCACCAGGTGCCAGCTGCCCTGCCCC  
 TTGCCCATGCCCTGTGTGTGGGCGGCCCTGGCCAACCAGGGCTCCCTGCGGAACCATATGAGGCTCCAT  
 ACAGGAGAAAAGCCTTCTGTGCGCCGACTGTGGCCGGGCGTTTCGTACGCGGGCAACCTGCGTGGGC  
 ATTTGCGGCTCCACACCGGGGAGCGTCTTACCCTGCCACACTGTGCCGATGCCTTCCCCAGCTGCC  
 TGAAGTGCAGCGCCATCTCATCTCACACCGGGGAGGCCCACTTGTGCCGGTGTGTGGCAAGGCCCTC  
 CGAGACCCACACAGCTCCGAGCTCACGAGCGCCTGCACTCCGGAGAGAGGCCCTTCCCTGTCCCAGT  
 GTGGCCGTGCTTACACGCTGGCCACCAAGCTGCGGCGCCACCTCAAATCTCACTTGGAGGACAAGCCCTA  
 CCGCTGCCCCACCTGTGGCATGGGTACACCTCCCGCAGAGCCTCAGGCGGCATCAGCTCAGTACCCGG  
 CCTGAGGCACCTGCAGCCACCTCTGTGCCTTCTGTGCTTCTGAGCCCACTGTGGTGTCTCTGCAGG  
 CTGAGCCCAACTGCTGGACACACAGAGAGGAGGAAGTCTCCCCGCCAGGGATGTTGTTGAGGTCAC  
 CATTTAGAAAGCCAGGAGAAGTGCTTTGTGGTGCCAGAGGAGCCAGATGCCGCCCCAGCCTGGTGCTA  
 ATCCATAAGGACATGGGCCTCGGCGCTGGGCAGAGGTGGTGGAGGTGGAGATGGGCACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

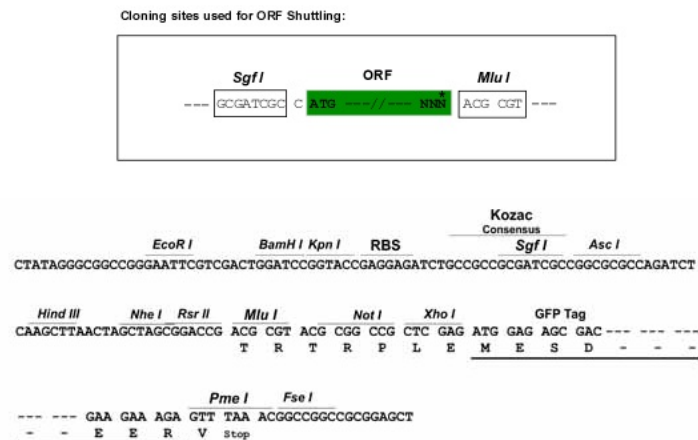
**Protein Sequence:** >RG202376 representing NM\_024741  
 Red=Cloning site Green=Tags(s)

MEEAEELLLEGKKALQLAREPRLGLDLGWNPSGEGCTQGLKDVPEPTRDILALKSLPRGLALGPSLAKE  
 QRLGVWCVGDPLQPGLLWGPLEEESASKEKGEVKPRQEENLSLGPWGDVCAEQSSGWTSLVQGRLES  
 EGNVAPVRISERLHLQVYQLVLPGESELLWPQPSSEGPLTQPGLDKEAAVAVVTEVESAVQQEVASPG  
 DAAEPCIDPGSQSPSGIQAENMVSPGLKFPTQDRISKDSQPLGPLLQDGDVDEECQAQAMPPELQNSA  
 TQQDPDGSASFSSSARGTQPHGYLAKKLHSPSDQCPRAKTPEPGAQQSGFPTLSRSPGPAGSSPKQG  
 RRYRCGECGKAFLQLCHLKKHAFVHTGHKPFLECTECGKSYSSEESFKAHMLGHRGVRPFPCQCDKAYGT  
 QRDLEKHQVHSGARPFACDQCGKAFARRPSRLRLHRKTHQVPAAPAPCPVCGRPLANQGLSLRNHMLRH  
 TGEKPFLLCPHCGRFRQGNLRGHLRLHTGERPYRCPHCADAFQPELRRHLISHTGEAHLCPVCGKAL  
 RDPHTLRAHERLHSGERPFPQCGRAYTLATKLRRHLKSHLEDKPYRCPTCGMGYTLQSLRRHQLSHR  
 PEAPCSPSPVPSAASEPTVLLQAEPQLLDTHREEEVSPARDVVEVTISESQEKCFVVEEPDAAPSLVL  
 IHKDMGLGAWAEVVEVEMGT

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024741

**ORF Size:** 2160 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_024741.3](#)

**RefSeq Size:** 2441 bp

**RefSeq ORF:** 2163 bp

**Locus ID:** 79797

**UniProt ID:** [Q9H9D4](#)

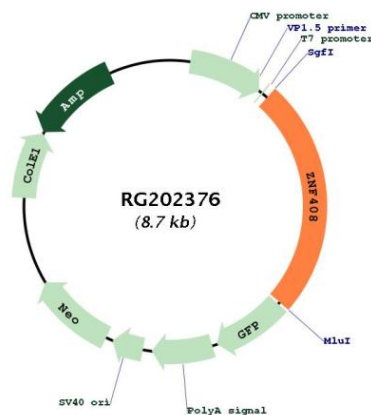
**Cytogenetics:** 11p11.2

**Domains:** zf-C2H2

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene contains ten tandem zinc fingers and an N-terminal SET domain, so it is likely a DNA binding protein that interacts with other proteins. In adults, the encoded protein is expressed most highly in retina. Consequently, defects in this gene have been associated with familial exudative vitreoretinopathy (FEVR) and retinitis pigmentosa (RP). [provided by RefSeq, Dec 2016]

## Product images:



Circular map for RG202376