

## Product datasheet for **RC202376**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF408 (NM_024741) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF408
Synonyms:	EVR6; RP72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC202376 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGGAGCGGAGGAGCTGCTCTTGGAGGGGAAGAAGCGCTGCAACTCGCCCGAGCCGCGCCTGG  
GCCTGGACTTAGGATGGAACCTTCCGGAGAAGGCTGTACGCAGGGCCTCAAAGACGTCCCACCCGAGCC  
GACCCGAGACATCCTCGCTTTAAAGAGCCTTCCCGGGGCTTGGCCCTTGCCCTCACTCGCCAAGGAA  
CAGCGCTTGGGGGTCTGGTGTGTCGGGGACCCCTGCAGCCCGCCTGCTGTGGGGCCGCTGGAAGAGG  
AGTCTGCCTCAAGGAGAAGGGCGAGGGAGTAAAGCCACGGCAGGAGGAGAACCTGTATTAGGCCCATG  
GGGAGACGTGTGCTGTGAGCAGAGTTCTGGCTGGACTAGCTTGGTACAACGGGGCAGGCTGGAGAGT  
GAGGGAATGTGGCCCCAGTCCGATCAGCGAGAGGCTTCATCTGCAAGTGTACCAGCTGGTGTGCCAG  
GCTCTGAACTGCTGCTGTGGCCCCAGCCTTCTCTGAGGGCCCAAGTCTCACCCAGCCTGGGCTGGACAA  
AGAGGCAGCTGTAGCAGTGGTACAGAAGTGGAGTCTGCTGTACAGCAGGAAGTGGCCTCCCTGGGGAG  
GATGCAGCAGAACCTTGATAGATCCTGGTCCAGTCCACCTCTGGCATCCAGGCAGAGAATATGGTGA  
GCCCTGGACTTAAGTTCCAACCCAGGACCGAATTTCCAAGGATAGCCAGCCACTTGGCCATTGCTTCA  
GGATGGCGACGTGGATGAGGAATGCCCGGCCAGGCACAGATGCCACCTGAACTTCAAGCAATTCGGCT  
ACCCAGCAGGACCCAGATGGCAGTGGAGCCAGTTTCTCATCTTCTGCCAGGGGCACCCAGCCGATGGCT  
ACCTGGCCAAGAAGTTACACAGCCCCAGTATCAGTGCACCCAGAGCAAGACCCAGAGCCTGGAGC  
CCAGCAGTCTGGCTTCCCTACACTCTCGCGAGCCCTCTGGCCAGCAGGAAGTCCCCAAGCAGGGG  
CGACGGTACCGGTGTGGAGAGTGTGGCAAGGCATTCTACAGCTGTGCCACCTAAAGAAGCAGCATTG  
TGCACACGGGGCCACAAGCCCTTTCTTGGACTGAGTGTGGCAAGAGCTATAGCTCAGAGGAGAGCTTCAA  
AGCCCATATGCTGGGCCACCGTGGGGTGCGGCCCTTCCCCTGTCCACAATGCGACAAGGCCATATGGCACC  
CAGCGAGACCTCAAAGAGCACCAGGTGGTACATTCAGGTGCCCGGCCCTTGTCTGTGACCAAGTGTGGCA  
AGGCCTTTGCCCGCCGGCCCTCCCTGCGGCTGCATCGCAAGACCCACCAGGTGCCAGCTGCCCTGCCCC  
TTGCCCATGCCCTGTGTGTGGGGGCCCTGGCCAACCAGGGCTCCCTGCGGAACCATATGAGGCTCCAT  
ACAGGAGAAAAGCCTTCTGTGCCCGCACTGTGGCCGGGCGTTTCGTACAGCGGGCAACCTGCGTGGGC  
ATTTGCGGCTCCACACCGGGGAGCGTCTTACCCTGCCACACTGTGCCGATGCCTTCCCCAGCTGCC  
TGAAGTGCAGCGCATCTCATCTCACACACCGGGAGGCCACTTGTGCCGGTGTGTGGCAAGGCCCTC  
CGAGACCCACACAGCTCCGAGCTCACGAGCGCCTGCACTCCGGAGAGAGGCCCTTCCCTGTCCCAGT  
GTGGCCGTGCTTACACGCTGGCCACCAAGCTGCGGCGCCACCTCAAATCTCACTTGGAGGACAAGCCCTA  
CCGCTGCCCCACCTGTGGCATGGGTACACCTCCCGCAGAGCCTCAGGGCGCATCAGCTCAGTACCCGG  
CCTGAGGCACCCTGCAGCCACCCTCTGTGCCTTCTGCTGCTTCTGAGCCCACTGTGGTGTCTCTGCAGG  
CTGAGCCACAAGTGTGGACACACAGAGAGGAGGAAGTCTCCCCGCCAGGGATGTTGTTGAGGTAC  
CATTTAGAAAAGCCAGGAGAAGTGTCTTGTGGTGCAGAGGAGCCAGATGCCGCCCCAGCCTGGTGCTA  
ATCCATAAGGACATGGCCCTCGGCGCTGGGCAGAGGTGGTGGAGGTGGAGATGGGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202376 protein sequence  
Red=Cloning site Green=Tags(s)

MEEAEELLLEGKKALQLAREPRLGLDLGNWPSGEGCTQGLKDVPEPTRDILALKSLPRGLALGPSLAKE  
 QRLGVWCVGDPLQPGLLWGPLEEESASKEKGEVKPRQEENLSLGPWGDVCAEQSSGWTSLVQRGRLES  
 EGNVAPVRI SERLHLQVYQLVLPGESELLWPQPSSEGPLTQPGLDKEAAVAVVTEVESAVQQEVASPG  
 DAAEPCIDPGSQSPSGIQAENMVSPGLKFPTQDRI SKDSQPLGPLLQGDVDEECAQAQMPPQLQNSA  
 TQQDPDGSASFSSSARGTQPHGYLAKKLHSPSDQCPPRAKTPEPGAQQSGFPTLSRSPGPAGSSPKQG  
 RRYRCGECGKAFLQLCHLKKHAFVHTGHKPFLLCTECGKSYSSEESFKAHMLGHRGVVPFPCQCDKAYGT  
 QRDLEKHQVVHSGARPFACDQCGKAFARRPSLRRLHRKTHQVPAAPAPCPCVCGRPLANQGLRNHMLRH  
 TGEKPFLLCPHCGRFRQRGNLRGHLRLHTGERPYRCPHCADAFQPLPELRRHLISHTGEAHLCPVCGKAL  
 RDPHTLRAHERLHSGERPFPCQCGRAYLATKLRRHLKSHLEDKPYRCPTCGMGYTLPQSLRRHQLSHR  
 PEAPCSPSPVPSAASEPTVLLQAEPLLDTHREEEVSPARDVVEVTISESQEKCFVVEEPPDAAPSLVL  
 IHKDMGLGAWAEVVEVEMGT

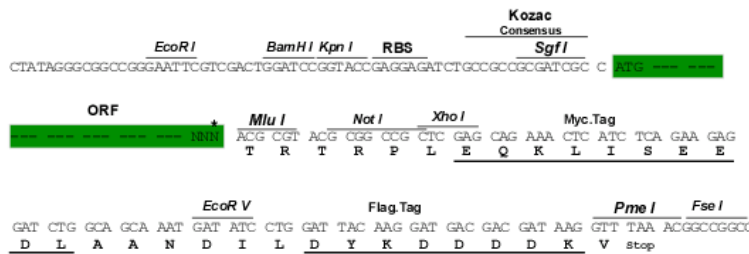
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6201\\_c06.zip](https://cdn.origene.com/chromatograms/mk6201_c06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024741

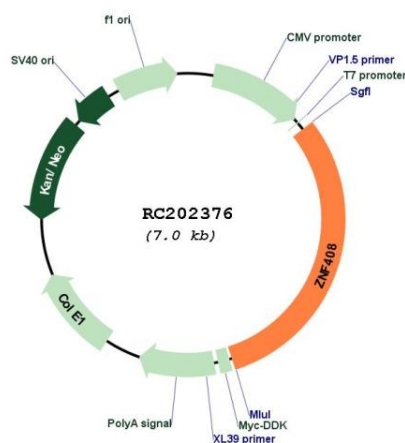
**ORF Size:** 2160 bp

**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](#)

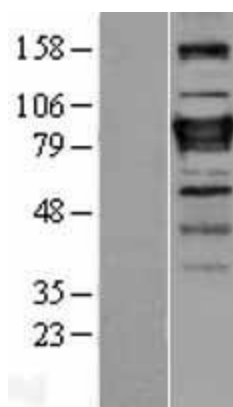
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_024741.3</a>
<b>RefSeq Size:</b>	2507 bp
<b>RefSeq ORF:</b>	2163 bp
<b>Locus ID:</b>	79797
<b>UniProt ID:</b>	<a href="#">Q9H9D4</a>
<b>Cytogenetics:</b>	11p11.2
<b>Domains:</b>	zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	78.4 kDa
<b>Gene Summary:</b>	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 RC202376



Western blot validation of overexpression lysate (Cat# [LY403021]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202376 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).