

Product datasheet for **RC202794**

ZNF649 (NM_023074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF649 (NM_023074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF649
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202794 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAAAGGCCAGGAATCACTGACCCTGGAGGATGTGGCTGTGGACTTCACTGGGAGGAGTGGCAGT
 TCCTGAGCCCTGCTCAGAAGGACCTGTACCGGGATGTGATGTTGGAGAACTACAGCAACCTTGTGTCACT
 GGGGTATCAAGCCGCAACCTGATGCCCTCACCAAGTTGGAACAAGGAGAACCCTATGGACACTAGAA
 GATGAAATCCACAGTCCAGCCCACCCAGAAATTGAGAAAGCTGATGATCATCTGCAGCAGCCCTGCAAA
 ACCAAAAATACTGAAGAGGACGGGACAACGCTATGAACACGGAAGAAGTTTAAATCATATTTAGGTTT
 AACCAACCAGAGCAGAAGATAACAACAGAAAGGAGCCTGCTGAGTTTAAATGGAGATGGAGCTTTTCTCCAT
 GATAATCATGAACAAATGCCTACGGAAATTGAATTCCTGAAAGTAGAAAACCCATCAGCACCAAGTCAC
 AATTCCCTAAACATCAGCAAACACACAACATAGAGAAAGCCCATGAATGCACTGACTGTGGGAAAGCTTT
 CCTCAAGAAGTCTCAGCTCACTGAGCATAGAGAATTCATACAGGAAAGAAACCCACGTGTGTAGCTTG
 TGTGGGAAAGCCTTCTACAAGAAGTACAGGCTCACTGAACACGAGAGAGCTCACAGAGGAGAGAAACCC
 ACGGGTGTAGCTTGTGTGGGAAAGCCTTCTACAAGAGGTACAGGCTCACTGAACACGAGAGAGCTCACAA
 AGGAGAGAAACCATACGGGTGCAGTGAATGTGGGAAAGCCTTCCCGAGAAATCTGAGCTTACTGAACAT
 CAAAGGATTCACACGGGAATTAAGCCCCATCAATGCAGCGAATGTGGGAGAGCTTTCTCCAGAAAATCAC
 TACTCGTTGTACATCAGCGAACTCATACAGGAGAGAAGCCTCATACATGCAGTGAATGTGGAAAAGGCTT
 CATTGAGAAGGCAATCTCAACATACATCAACGAACTCACACTGGAGAGAAAACCTTATGGATGCATTGAC
 TGTGGCAAGGCCCTCAGCCAGAAGTCTTGCCTTGTAGCACATCAGAGATATCATACAGGAAAGACTCCCT
 TTGTATGTCCTGAATGTGGCAACCCCTGTTACAGAAAGTCAAGACTCATTAGACATCAGAAAATTCCTC
 AGGAGAGAAAACCTATAAATGCAGTGAAGTGTGGGAAAGCCTTCTTACAAGACAATGCTCATTGTACAT
 CACAGAACTCACACGGGAGAGAGCCCTATGGCTGTGATGAGTGTGAGAAAGCTTACTTCTATATGTCTT
 GCCTTGTAAACATAAGAGAATACACTCAAGGAGAAAACGGGGGATTCAAGTGAAGGTGGAAAATCCTTC
 CACAGCAAGTACAGCTTAAGTCTAGTGAACATGTGCAGGGGAAAGCCTGTTAATATGGTAACTGTG
 GCAATGGTGGCAGGCAGTGTGAGTTTGCCACATCCTGCATTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202794 protein sequence
 Red=Cloning site Green=Tags(s)

MTKAQESLTLEDVAVDFTWEEWQFLSPAQKDLYRDVMLENYSNLVSVGYQAGKPDALTKLEQGEPLWTL
 DEIHSPAHEIEKADDHLQPLQNKILKRTGQRYEHGRTLKSYLGLTNQSRRYNRKEPAEFNGDGAFLH
 DNHEQMPTEIEFPESRKPISTKSQFLKHQQTHNIEKAHECTDCGKAFLLKSQLTEHKRIHTGKKPHVCSL
 CGKAFYKRYRLTEHERAHRGKPHGCSLCKAFYKRYRLTEHERAHKGEKPYGCSECGKAFPRKSELTEH
 QRIHTGIKPHQSECGRAF SRKSLLVVHQRTHTGKPHTCSECGKFIQKGNLNIHQRTHTGKPYGCID
 CGKAFSQQSCLVAHQRYHTGKTPFVCEPGQPCSQKSGLIRHQIHSGEKPYKSDCGKAFLLTKTMLIVH
 HRHTHTGERPYGCDEKAYFYMSCLVKHKRIHSREKRGDSVKVENPSTASHSLSPSEHVQKSPVNMVTV
 AMVAGQCEFAHILHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6674_d04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_023074

ORF Size: 1515 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_023074.4](#)

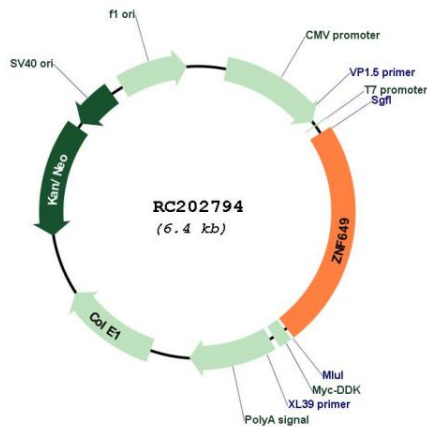
RefSeq Size: 3234 bp

RefSeq ORF: 1518 bp

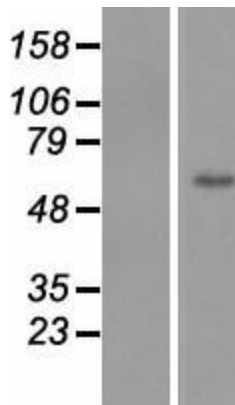
Locus ID: 65251

UniProt ID: [Q9BS31](#)
Cytogenetics: 19q13.41
Domains: KRAB, zf-C2H2
Protein Families: Transcription Factors
MW: 57.7 kDa
Gene Summary: Transcriptional repressor. Regulator of transcriptional factor complexes and may suppress SRE and AP-1 transcription activities mediated by growth factor signaling pathways. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC202794



Western blot validation of overexpression lysate (Cat# [LY411506]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202794 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).