

Product datasheet for **RC202785**

ZNF670 (NM_033213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF670 (NM_033213) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF670
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202785 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCAGTGTCAATTTGAAGATGTGGCTGTGGCCTTTACTCAGGAGGAGTGGGCTTTGCTGGATCCTT
CTCAAAGAATCTCTACAGAGATGTGATGCAAGAAATCTTCAGGAACCTGGCTTCTGTAGGAAACAAATC
AGAAGACCAGAATATCCAAGATGACTTCAAAAATCCTGGGAGAAATCTAAGCAGTCATGTGGTAGAGAGA
CTGTTTTGAAATTAAGAAGGCAGTCAATATGGAGAAACCTTCAGCCAGGATTCAAATTTGAATCTGAATA
AGAAAGTTTCTACTGGAGTAAAGCCATGTAATGCAGTGTGTGGGAAAAGTCTTCATATGTCATTCAGC
CCTTCATAGGCACATCCTGTCTCACATTGGAAACAACTATTTGAGTGTGAGGAATGTCCAGAGAAGTTA
TATCATTGCAAACAATGTGGGAAAGCCTTTATCTCTCACCAAGTGTGACAGACACATGGTAACACACA
CTAGTAATGGGCCTTATAAGGGTCCAGTGTATGAGAAGCCTTTTGATTTTCTAGTGTATTTCAAATGCC
TCAGAGCACTTACACTGGAGAGAAAACATATAAATGTAACATTGTGATAAAGCCTTCAATTATTCAAGT
TATCTTCGTGAACATGAAAGAATCATACTGGAGAGAAACCTATGCATGTAAGAAATGTGGTAAATCAT
TCACTTTTCCAGTTCTCTTCGCCAACATGAAAGATCTCATACTGGAGAGAAACCTATGAATGTAAGGA
ATGTGGCAAAGCCTTCAGTCGTTCCACTTACTTGGGAATACATGAAAGAACGCATACTGGAGAAAAACCC
TATGAATGTATAAATGTGGCAAAGCCTTTAGATGTTCCAGAGTCTCAGAGTCCATGAAAGGACTCACA
GTGGAGAAAAGCCCTATGAATGTAACAATGTGGTAAAGCCTTCAAATATTCTAGTAACCTATGTGAGCA
TGAAAGAATCACAAGGACTGAAAGCCTTATGGATGTAAGGAATGTGGTAAAGTCTTTACTTCTCCAGT
GCCCTTCGAAGCCATGAAAGGACTCATACTGGAGAAAAACCTATGAATGTAAGAAATGTGGTAAAGCCT
TCAGTTGTTCCAGTTCCCTTCGAAAGCATGAAAGAGCTTATATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202785 protein sequence
Red=Cloning site Green=Tags(s)

MDSVSEFDVAVAFTQEEWALLDPSQKNLYRDMQEIFRNLASVGNKSEDQNIQDDFKNPGRNLSSHVVER
 LFEIKEGSQYGETFSQDSNLLNKKVSTGVKPCESVCGKVFICHSAHRHILSHIGNKLFEECEPEKL
 YHCKQCGKAFISLTSVDRHMVHTSNGPYKGPVYEKPFDFPSVFQMPQSTYTGEKTYKCKHCDKAFNYSS
 YLREHERHTHTEKPYACKKCGKSFTFSSSLRQHERSHTGEKPYECKECGKAFSRSTYLGIIHERHTHTEKPY
 YECIKCGKAFRCRVLRVHERTHSGEKPYECKQCGKAFKYSSNLCEHERHTHTEKPYGCKEKGKSFSSS
 ALRSHERHTHTEKPYECKKCGKAFSCSSSLRKHERAYMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6578_d05.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_033213

ORF Size: 1167 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_033213.5](#)

RefSeq Size: 4198 bp

RefSeq ORF: 1170 bp

Locus ID: 93474

UniProt ID: [Q9BS34](#)

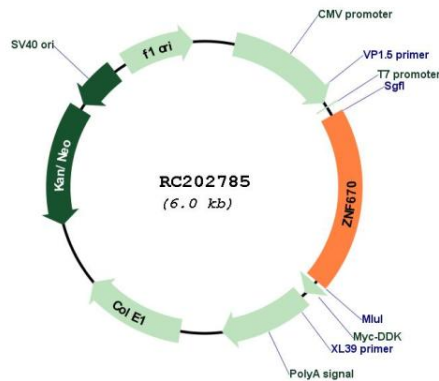
Cytogenetics: 1q44

Protein Families: Transcription Factors

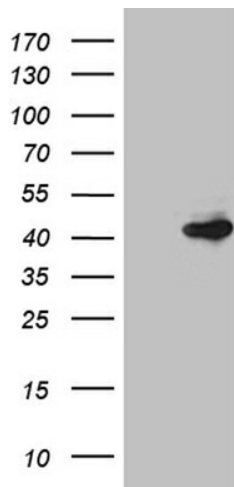
MW: 44.6 kDa

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

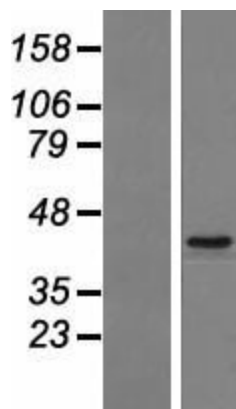
Product images:



Circular map for RC202785



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZNF670 (Cat# RC202785, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZNF670 (Cat# [TA811131])(1:2000). Positive lysates [LY409661] (100ug) and [LC409661] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409661]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202785 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).