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Product datasheet for RC203670

C14orf80 (NM_173608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf80 (NM_173608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C14orf80
Synonyms:	chromosome 14 open reading frame 80; MGC16771
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203670 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGCCCAGGCCCGAGTGCCTCTGGGTGACGAGATGACTGTGTGCCAGATCCACCTGTACACACGCG
GCTGCCACAGCGACCAGAGCCTTAGCCATCTGTCTGTCACTGAAGCAGAGATGCTCAGGGACCCAGAGGG
AGGCCAGCAGCTGCTGCGGACTCTGGAGCGTGAGAACCAGCGCCTGGAGGCTGTCCTGGCGTGGCGGCGC
TCTGAGCTGGTCTTCTGGCGGTGGATGGACACGGTCCTGGGCACCTGTGCCCCGGAGGTGCCTGCTGCAG
CCTCACAGCCCACCTTCCTGCCCTGGGTCCCCGAGCGCGGGGGTGGCGAGTTGGACCTGGTAGTGCGGGA
GCTGCAGGCACTGGAGGAGGAGCTGCGGGAGGCTGCGGAGCGCAGGCGGGCGGCCTGGGAGGCCAAGGCT
GGAGGCTGTGGACGGGGGCCAGAGTGGAGTGCCGCGCGGCGGGCCTCTCGGGAGGCTGTGGAAAAGGAGC
TGGGAGCTCTACAGCAGTGCTGGGAGCGAGACGGTGGCCCGGCCCAGCCCCATGGGCCACACCGGCTGGT
GAGACGAGAGGATGGGGCAGCAGGGGACCGGGACCTGCGGGCAGCTGTGGTGATCAGGACGCTGAGGAGC
CAGGAGGCCTGCCTGGAGGCGGTGCTACGTCGACTACAGGGACAGTGTCGGCAGGAACTGGCCAGGCTGG
TGGGAGCCCGCCCTGGTCTCATCTGGATCCCGCCACCTGGACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203670 protein sequence
Red=Cloning site Green=Tags(s)

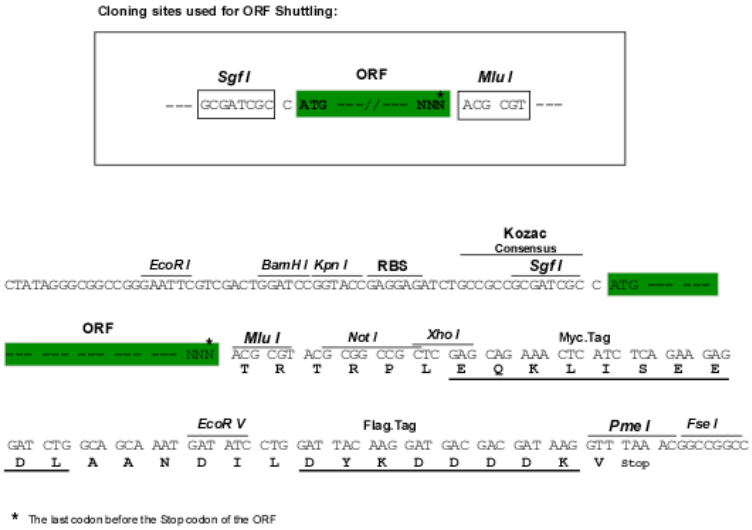
MLAQARVPLGDEMTVCQIHLYTRGCHSDQSLSHLSVTEAEMLRDPEGGQQLLRTLERENQRLEAVLAWRR
SELVFWRWMDTVLGTCAPEVPAAASQPTFLPWVPERGGGELDLVVRELQALEEELREAAERRRAAWEAKA
GGCGRGPEWSAARRASREAVEKELGALQQCWERDGGPAQPHGPHRLVRREDGAAGDRDLRAAVVIRTLRS
QEACLEAVLRRLQGQCRQELARLVGARPGLIWIPPPGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6307_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173608

ORF Size: 744 bp

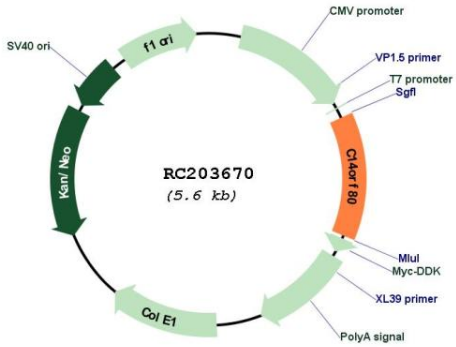
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

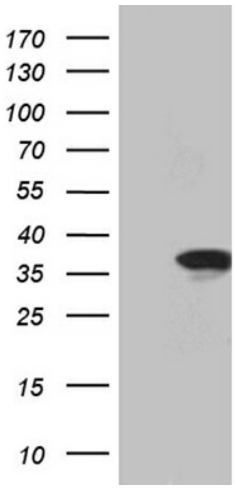
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_173608.1, NP_775879.1
RefSeq Size:	1563 bp
RefSeq ORF:	1124 bp
Locus ID:	283643
Cytogenetics:	14q32.33
MW:	27.7 kDa
Gene Summary:	May play a role in counteracting perturbation of actin filaments, such as after treatment with the actin depolymerizing microbial metabolite Chivosazole F.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203670



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C14orf80 (Cat# RC203670, 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-C14orf80 (Cat# [TA811468])(1:2000).