

Product datasheet for RC212022

C17orf85 (NCBP3) (NM_018553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C17orf85 (NCBP3) (NM_018553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C17orf85
Synonyms:	ELG; HSA277841
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212022 representing NM_018553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATATGGGAATCCAAATTATGGAGGCATGAAAGGAATTCCTAGCAATTCATGGAAGCGAAGATATC
ATCCCGTCGTATTCAGCGGGACGTGATCAAGAAGAGAGCCCTGATTGGGGATGACGTTGGCTTGACGTC
GTATAACATCGACATTCTGGGCTAGTGAATGTTCCCGAGGAACCCATTGAAGAGGAGGAAGAGGAGGAG
GAGGAGGAAGAGGAAGAGGAAGAAGAAGACCAGGACATGGATGCAGATGACAGAGTGGTGGTAGAGTACC
ACGAGGAGCTCCCGGCTCTCAAGCAGCCCCGGGAGCGGAGCGCTCTAGACGATCCAGTGCCAGCAGCTC
AGACTCAGATGAAATGGACTATGATCTAGAAGTAAAATGATTTCCACGCCTTCACCAAAGAAAAGCATG
AAAATGACTATGTATGCTGACGAAGTGGAACTCAGTTGAAAAATATTAGGAACTCCATGAGGGCAGATA
GTGTATCTTCAAGCAATATCAAAAACCGAATTGGTAACAAATTACCACCTGAGAAATTTGCAGATGTCCG
ACATCTATTAGATGAGAAACGTCAGCACTCCCCTCCACGGCCACCAGTCAGCAGTACTAAATCAGATATA
CGCCAGCGTTAGGAAAAAGACCACATTCTCCGAAAAGGCTTTTAGTAGTAACCCCGTCGTTCCGGAGAG
AGCCCTCTTCTGATGTGCATAGTAGGCTAGGTGTTCCAGGCAGGATAGTAAAGGCTCTACGCCGATAC
TCGGGAGAAGAAATCAGGTAATTTATGGACTCGCCTAGGATCTGCACCAAGACCAAGAAAAGAATAACG
AAGAAAGTGGATCACAGGGCGCTGGCGCTGAGGAAGACGACTCTGAGCTGCAAAGGGCATGGGGGGCTC
TGATTAAGGAGAAAGAGCAGTCTCGCCAAAAGAAGAGCCGCTTAGATAAATTACCATCTCTCCAGATTGA
AGTTAGTCGGAAAGCAGCTCTGGTTCAGAGGCAGAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212022 representing NM_018553
Red=Cloning site Green=Tags(s)

MKYGNPNYGGMKGILSNSWKRRYHSRRIQRDVIKKRALIGDDVGLTSYKHRHSGLVNVPEEPIEEEEEE
 EEEEEEEEDQMDADDRVVVEYHEELPALKQPRERSASRRSSASSSDSEMDYDLELKMISTPSPKKS
 MMTMYADEVESQLKNIRNSMRADSVSSSNIKNRIGNKLPPEKFADVRHLLDEKROHSRPRPPVSSSTKSDI
 RQRLGKRPHSPEKAFSSNPVVRREPSSDVHSRLGVPRQDSKGLYADTREKKSIGNLWTRLGSAPKTKKNT
 KKVDHRAPGAEEDDSELQRAWGALIKEKEQSRQKKSRLDNLPSLQIEVSRESSSGSEAES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6837_e01.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_018553

ORF Size: 1020 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_018553.3](#)

RefSeq Size: 2709 bp

RefSeq ORF: 1022 bp

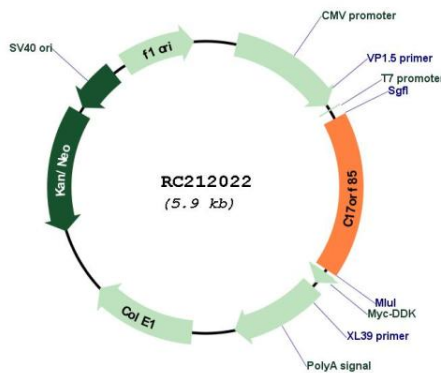
Locus ID: 55421

Cytogenetics: 17p13.2

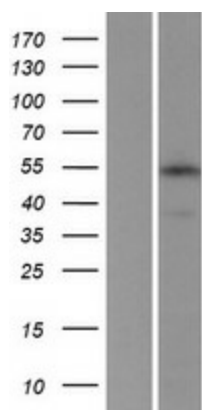
MW: 38.7 kDa

Gene Summary: Associates with NCBP1/CBP80 to form an alternative cap-binding complex (CBC) which plays a key role in mRNA export. NCBP3 serves as adapter protein linking the capped RNAs (m7GpppG-capped RNA) to NCBP1/CBP80. Unlike the conventional CBC with NCBP2 which binds both small nuclear RNA (snRNA) and messenger (mRNA) and is involved in their export from the nucleus, the alternative CBC with NCBP3 does not bind snRNA and associates only with mRNA thereby playing a role in only mRNA export. The alternative CBC is particularly important in cellular stress situations such as virus infections and the NCBP3 activity is critical to inhibit virus growth (PubMed:26382858).[UniProtKB/Swiss-Prot Function]

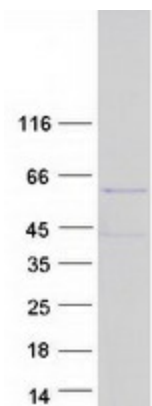
Product images:



Circular map for RC212022



Western blot validation of overexpression lysate (Cat# [LY413006]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212022 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C17orf85 protein (Cat# [TP312022]). The protein was produced from HEK293T cells transfected with C17orf85 cDNA clone (Cat# RC212022) using MegaTran 2.0 (Cat# [TT210002]).