

Product datasheet for **RG212022**

C17orf85 (NCBP3) (NM_018553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C17orf85
Synonyms:	ELG; HSA277841
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212022 representing NM_018553
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAATATGGGAATCCAAATTATGGAGGCATGAAAGGAATCTTAGCAATTCATGGAAGCGAAGATATC
ATTCCTCGTATTCAGCGGGACGTGATCAAGAAGAGAGCCCTGATTGGGGATGACGTTGGCTTGACGTC
GTATAACATCGACATTCTGGCTAGTGAATGTTCCCGAGGAACCCATTGAAGAGGAGGAAGAGGAGGAG
GAGGAGGAAGAGGAAGAGGAAGAAGACCAGGACATGGATGCAGATGACAGAGTGGTGGTAGAGTACC
ACGAGGAGCTCCCGGCTCTCAAGCAGCCCCGGGAGCGGAGCGCTCTAGACGATCCAGTGCCAGCAGCTC
AGACTCAGATGAAATGGACTATGATCTAGAACTGAAAATGATTTCCACGCCTTCACCAAAGAAAAGCATG
AAAATGACTATGTATGCTGACGAAGTGAATCTCAGTTGAAAAATATTAGGAACTCCATGAGGGCAGATA
GTGTATCTTCAAGCAATATCAAAAACCGAATTGGTAACAAATTACCACCTGAGAAATTTGCAGATGTCCG
ACATCTATTAGATGAGAAACGTGAGCACTCCCGTCCACGGCCACCACTGAGCAGTAAATCAGATATA
CGCCAGCGGTTAGGAAAAAGACCACATTCTCCGAAAAAGGCTTTTAGTAGTAACCCCGTCGTTCCGAGAG
AGCCCTCTTCTGATGTGCATAGTAGGCTAGGTGTTCCAGGCAGGATAGTAAAGGCCTCTACGCCGATAC
TCGGGAGAAGAAATCAGGTAATTTATGGACTCGCTAGGATCTGCACCAAGACCAAGAAAAGAAATACG
AAGAAAGTGGATCACAGGCGCCTGGCGCTGAGGAAGACGACTCTGAGCTGCAAAAGGCATGGGGGCTC
TGATTAAGGAGAAAGAGCAGTCTCGCCAAAGAGAGCCGTTAGATAACTTACCATCTCTCCAGATTGA
AGTTAGTCGGGAAAGCAGCTCTGGTTCAGAGGCAGAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG212022 representing NM_018553

Red=Cloning site Green=Tags(s)

MKYGNPNYGGMKGILSNWKRYYHSRRIQRDVIKKRALIGDDVGLTSYKHRHSGLVNVPEEPIEEEEEE
EEEEEEEEEDQMDADDRVVVEYHEELPALKQPRERSASRRSSASSSDSDMDYDLELKMISTPSPKSM
KMTMYADEVESQLKNIRNSMRADSVSSSNIKNRIGNKLPPEKFADVRHLLDEKRQHSRPRPPVSSTKSDI
RQRLGKRPHSPEKAFSSNPVVRREPSSDVHSRLGVPRQDSKGLYADTREKKSGLNWLRLGSAPKTEKNT
KKVDHRAPGAEEEDSELQRAWGALIKEKEQSRQKKSRLDNLPSLQIEVSRESSSGSEAES

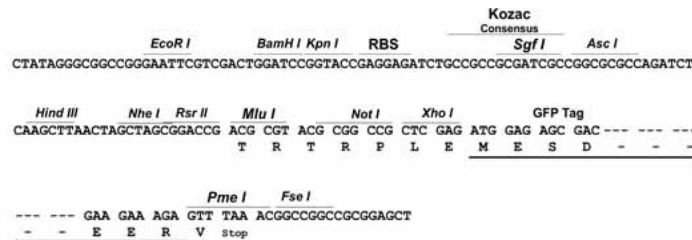
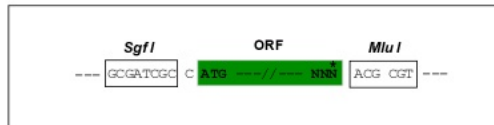
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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:

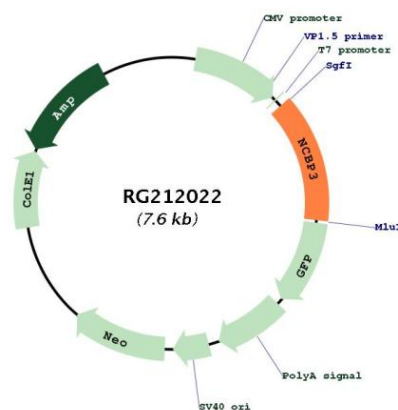
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018553.3</u>
RefSeq Size:	2709 bp
RefSeq ORF:	1022 bp
Locus ID:	55421
Cytogenetics:	17p13.2
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 RG212022