

Product datasheet for **MG209440**

Ncbp3 (NM_025818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncbp3 (NM_025818) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ncbp3
Synonyms:	1200014J11Rik; C78393; C130061O14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209440 representing NM_025818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCGCTCCGCGGCTGCGAGTGTCTGTGAAGCGGAGGCCCGTGGGCCGGCTTTGGGGCTTC
 CGTCGCCCCGAGGTGGAGTCCGGTTTGGAGCGTGGCGAGCCGAGCCCATGGAAGTGAAGAAGCGAGCT
 GGAAATCGTGCCGGTGGCGGCTCCCTAAAGGAACTGCTCCCGGACACAAGCAGAAGATATGAAAAAAG
 GCTGGCAGCTTCACTACTGGGATCGATGTACCTCCAAGGAAGCAATTGAAAAGAAAAGAACGAGGCCA
 AGCGCTTCCACTTTCGAGCAGAAGTAACTTGGCCAGAGAAATGTAGCCTTGGACCGAGACATGATGAA
 GAAAGCAATCCCAAGGTGAGACTGGAGACAATCTACATTTGGGAGTGGATGAAATGAGCACCCAGGAT
 ATCTTCTCTATTTAAAGGAATATCTCCAGCTCACATTGAGTGGTTGGATGACACCTCTGCAATGTGG
 TTTGGCTGGACGAGATGACGGCCACACGAGCTCTCATCAATATGAGTTCTCTGCCAGCCAGGATAAGAT
 GAGAAGCAGAGATGCCAGTGAAGACAAGTCGTCGGAGAAGAACAAGAAAGACAAGCAGGAAGACAGTTCA
 GATGACGACGAGACTGAAGAAGGAGAAGTGAAGATGAGAATCAAGTGTAGAGTTGGACACGTTGT
 CTCAGGTAGAAGAAGAGTCTCTGTTACGAAATGATCTTCGTCAGCTAACAACTTGCTAAAGGAAATAG
 ACTATTCATGAGATTTGCTACAAAAGATGACAAAAGGAACTTGGAGCAGCCAGAAGAAGTCAACTACTAC
 ATGAAGTATGGAATCCAAATATGGAGGCATGAAAGGAACTTCTAGCAATTCATGGAAGCGAAGATATC
 ATCCCGTCGCATTCAGCGGGATGTGATCAAGAAGAGAGCCCTGATTGGGGATGACGTTGGCTTGACGTC
 GTATAACACCGACATCCGGATTAGTGAATGTTCTGAGGAACCCATTGAGGAAGAGGAGGAGGAGGAG
 GAGGAAGAGGAGGACCAGGACATGGATGCCGATGACAGAGTCTGGTGGAGTACCATGAGGAGCTCCAG
 GTCTCAAGCAGCCCCGTGAGCGGAGCTGTCTAGCGGATCCAGTCCGAGCAGCTCAGACTCAGATGAGAT
 GGACTATGATCTGGAAGTGAAGATGATTTCTACTCCCTCCCAAAGAAAAGCATGAAAATGACCATGTAT
 GCAGATGAAGTAGAGTCCCAACTGAAAAGTATTAGGAATCCCATGAGGGCAGATAGTATATCCACAAGCA
 ATATAAAAAACGAATTGGTAACAAATTGCCTCTGAGAAATTTGCAGATGTCCGTCATCTCTTAGATGA
 AAAGAGGCAGCATTCTGTCCACGGCCAGCAGTACGAGTAAACCAGATATTCGCCAGCGGTTAGGA
 AAAAGACCGTATTCTCCAGAGAAGGCTTTTAGTAGTAACCAGGTGGTTCGGAGAGAGCCCTTTCAGATG
 TACATAGTAGGCTAGGTGTTCCAGGCAAGATGTTAAAGGCTCTACTCTGATACTCGGGAGAGGAAATC
 AGGTGGTTTGTGGACTCGCTTAGGATCTACACCAAGACCAAAGAAAAGAACACGAAGAAAGTGGATCAC
 AGGGCATCTGGTCTGAGGAAGTACTCGGAGCTTCAGAGAGCATGGGGTCTCTGATCAAGGAGAAAAG
 AAGAGTCTCGCCAGAAGAAGAGTCGGCTGGATAGCTTGCCTTCGTCAGATTGAAGTACGCGGGAAAAG
 TAGCTCTGGTTCAGAGGCAGAGTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209440 representing NM_025818
 Red=Cloning site Green=Tags(s)

MAVRGLRVSVKAEAPAGPALGLPSPEVESGLERGEPEPEVEEGELEIVPVRSLKELLPDSRRYENK
 AGSFITGIDVTSKEAIEKKEQRAKRFHFRAEVNLAQRNVALDRDMMKKAIPKVRLETIYICGVDEMSTQD
 IFSYFKEYPPAHIEWLDDTSCNVVWLDEMATRALINMSSLPAQDKMRSRDA SEDKSSEKNKDKQEDSS
 DDETEEGEVEDENSSVELDTLSQVEEESLLRNDRPANKLAKGNRLFMR FATKDDKKELGAARRSQQY
 MKYGNPNYGMKGILSNSWKRRYHSRRIQRDVIKKRALIGDDVGLTSYKHRHSLVNVPEEPIEEEEEE
 EEEEDQDMDADDRVVVEYHEELPGLKQPRERSLSRRSSASSSDSDMDYDLELKMISTPSPKSMKMTMY
 ADEVESQLKSIRNPMRADSISTSNIKNRIGNKLPPEKFADVRHLLDEKRQHSCPRPAVSSTKPDIRQLG
 KRPYSPEKAFSSNQVVRREPSSDVHSRLGVPRQDVKGLYSDTRERKSGGLWTRLGSTPKTKKENTKKVDH
 RASGAEEEDSELQRWALIKEEESRQKKSRLDSLPSLQIEVSRESSSGSEAES

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_025818

ORF Size: 1845 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_025818.3](#), [NP_080094.3](#)

RefSeq Size: 6284 bp

RefSeq ORF: 1848 bp

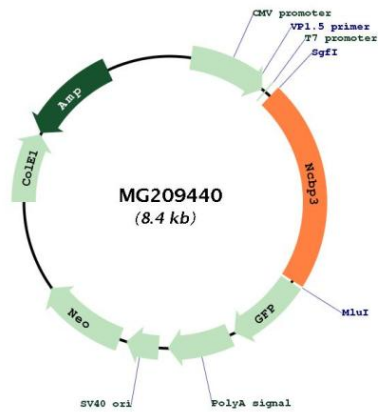
Locus ID: 66874

UniProt ID: [Q8BZR9](#)

Cytogenetics: 11 B4

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 MG209440