

Product datasheet for **MG211935**

ErbB3 (BC106091) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ErbB3 (BC106091) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ErbB3
Synonyms:	C76256; ErbB-3; ErbB3r; Her3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211935 representing BC106091 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAGTGCATTGGGACTCTGCAGGTGCTGGGTTTCTTCTCAGCCTGGCCCGGGTTCCGAGATGGGCA
ACTCTCAGGCAGTATGCTCTGGGACTCTAAACGGGCTGAGTGTGACCGCGCATGCTGACAACCACTACCA
GACTGTACAACTCTATGAGAAGTGTGAGGTGGTCAATGGGTAACCTGGAGATTGTGCTTACGGGACAC
AATGCTGATCTTCTTCTGCAATGGATCCGAGAAGTGCAGGCTATGTACTGGTGCCATGAATGAAT
TCTCTGTACTGCCCTTACCTAACCTCCGAGTGGTCCGGGAACCCAGGCTACGATGGGAAGTTTGCAT
CTTTGTCATGTTGAACACAATACCACTCCAGCCATGCTCTGCGCCAGCTCCGGTTCACTCAGCTTACT
GAGATTCTGTTAGGGGGCGTTTACATTGAGAAGATGACAACTTTGCCACATGGATACAATTGACTGGA
GGGACATCGTGAGGGTTCCAGACGCTGAGATAGTGGTGAAGAACAACGGGGGAACTGTCCACCCTGTCA
CGAAGTCTGCAAGGGGCGATGCTGGGGCCTGGACCAGAAGACTGCCAGATATTGACCAAGACCATCTGT
GCCCCTCAGTGTAAACGGTCGCTGCTTCGGGCCAATCCTAACCAGTGTGCCACGATGAATGTGCAGGTG
GCTGCTCTGGACCCAGGACACAGATTGCTTCGCTGCCGACACTTCAATGACAGTGGTGCCTGTGTGCC
CAGGTGCCAGCGCCCTTGTGTACAACAAGCTAACGTTCCAGCTTGAGCCCAACCCCATATCAAGTAT
CAGTACCGAGGAGTCTGTGTTGCCAGTTGTCCCATAACTTTGTGGTGGATCAGACATTTGTGTGAGGG
CTTGCTCTGCTGACAAGATGGAAGTAGATAAGAATGGACTCAAGATGTGTGAGCCTTGACAGGGCTGTG
CCCAAAAGCCTGTGAGGGGACGGCTCTGGAAGCCGCTACCAGACCGTGGACTCTAGCAATATCGATGGG
TTCGTGAAGTGTACCAAGATCCTGGGCAACCTGGACTTCTCATCACTGGCCTCAATGGTACCCCTGGC
ACAAGATCCCTGCACTGGACCCGAAAAGCTCAATGTTTTTCAGGACAGTCCGGGAGATTACAGGCTACCT
AAACATCCAGTCTGGCCCCCTCACATGCACAACCTCAGTGTTTTTTCCAACCTGACGACCATCGGGGGC
AGAAGCCTCTACAATCGGGGCTTCTCCTGTGATCATGAAGAAGTGAATGTACAGTCTCTGGGCTTCC
GGTCCCTGAAGGAAATTAGTGTGGCGTGTCTACATAAGTGCCAATCAGCAACTTTGTTACCACCACTC
TCTGAAGTGGACAGACTTCTGCGGGGGCCCGAGAGGAGACTTGACATCAAGTACAACCGCCCTCTG



[View online >](#)

GGAGAATGCGTGGCAGAGGGCAAAGTGTGTGATCCACTGTGCTCCTCTGGGGGATGCTGGGGCCAGGCC
CTGGTCAGTGCTTGTCTTGTGCGAACTACAGCCGGGAAGGTGTCTGTGTGACTACTGCAACGTTCTGCA
AGGGGAACCCCGAGAGTTTGTTCATGAGGCTCATTGCTTCTCCTGCCATCCAGAATGCCAGCCCATGGAG
GGCACCAGCACGTGCAATGGCTCGGGCTCCGACGCTTGTGCTCGATGCGCCCATTTTCGTGATGGGCCCC
ACTGTGTGAACAGCTGCCCCATGGAATCCTAGGTGCCAAAGGTCCAATCTACAAATATCCAGATGCTCA
GAATGAGTGCCGGCCCTGCCACGAGAATGCACCAAGGGTGAAGGGACCAGAATAACAAGACTGTTTA
GGCCAAGCAGAGGTATTAATGAGCAAACACACCTGGTCATAGCGGTGACAGTAGGACTGACTGTGATCT
TCCTGATTCTGGGAGGCTCTTTTCTATTGGCGTGGACGAGGATTGAGAATAAAAGGGCTATGAGACG
CTACTTGGAGCGGGGTGAGAGCATCGAGCCTCTGGACCCAAGCGAGAAGGCAAACAAAGTCTTGGCTAGA
ATCTTCAAAGAGACAGAGCTGAGGAACTTAAGGTGCTTGGCTCTGGTGTCTTTGGAAGTGTACACAAGG
GGATTTGGATTCCCGAGGGTGAATCCATCAAGATTCCAGTCTGCATTAAGTCAATCGAGGACAAGAGTGG
GCGGCAGAGTTTTAGGCTGTGACTGATCAGTCTGCTGGCCGTGGCAGCCTGGACCATGCCACATTGTA
CGGCTGCTGGGACTGTGCCAGGGTCACTCTGCAGCTTGTCACTCAGTACTTGCCTCTGGGCTCTCTCC
TTGATCATGTAAGACAGCACCGTGAGACTGGGACCACAGCTGTGCTCAACTGGGAGTACAAATTGC
CAAGGGTATGTATTACCTCGAGGAACACAGCATGGTGCATAGGGACCTTTCGCTCCGGAATGTGATGCTT
AAGTCACCAGTCAAGTCCAGGTGGCAGATTTTGGTGTGGCTGACTTGTGCCCGCAGATGACAAGCAGT
TACTACACAGTGAAGCCAAAGACTCCAATTAATGGATGGCCCTTGAGAGTATCCACTTTGGGAAATACAC
ACACCAGAGTGTGCTGGAGTTACGGTGAACCGTTTGGGAGTTGATGACCTTCGGGGCAGAGCCCTAC
GCAGGGCTACGACTGGCTGAAATACCAGACCTGCTGGAGAAGGGAGAGCGGTTAGCACAGCCCCAGATCT
GCACCATGACGTCTACATGGTCAAGTGTGGATGATTGACGAGAATATTCGCCAACCTTTAA
AGAAGTGGCCAAAGATTTACCAGGATGGCCCGGACCCCAAGGTATCTGGTCAAGAGAGCGAGT
GGGCTTGAATACCTCCTGCAGCAGAGCCATCTGCTCTGAGCACCAAGAGTTGCAGGATGCAGAGCTGG
AGCCAGACCTGGACCTCGACCTAGACGTGGAGGTAGAAGAGGAGGGCCTGGCGACCACACTGGGTTCTGC
CCTCAGCTTGCCTACAGGAACGCTTACCCGGCCACGTGGGAGCCAGAGTCTTTTAAAGTCTTCGTCTGGA
TACATGCCATGAACCAGAGCAACCTTGGGGAGGCTTGTCTGGATTCTGCGGTTTTGGGGGTTCGGAAC
AGTTCTCCCGTCCATCTCTCTGCACCCGATCCCACGGGGCGTCAAACGTGAGAGTATCAGAGGGCCA
TGTGACGGGCTCTGAGGCTGAACTCCAAGAGAGATCAATGTGTAGGAGCCGGAGCCGGAGCCGGAGC
CCACGGCCACGTGGGACAGTGCCTACCATTGCGAGCGACACAGCCTGCTTACTCCCGTCACCCCGCTCT
CCCCACCAGGGTTAGAGGAAGAGGATGGCAATGGTTATGTCATGCCAGATACGCACCTCAGAGGTACATC
CTCTTCCCGGAAGGCACCTTTTCGTAGTAGGCTCAGTCTGTGCTGGTACCGAAGAGGAAGATGAA
GATGAGGAGTATGAATACATGAACCGGAAGAGGAGGGGTAGCCCGCTCGCCCCCAGACTGGTTCCC
TGGAAGAGCTGGGCTATGAGTACATGGATGTGGTTCAGACCTCAGTGTCTCTGGGCAGTACGCAGAG
TTGCCACTCCATCCCATGGCCATCGTGCCCTCTGCTGGCACGACTCCAGATGAGGACTATGAATACATG
AACCAGAGCGTGGTGGGGCGGTTCCGGAGGGGATTATGCAGCTATGGGGCCTGCCAGCAGCTGAAC
AAGGGTATGAGGAAATGCGAGCTTCCAGGGCCCTGGACATCAAGCCCCCATGTTTCGTTATGCCCGCT
CAAACCTGCGTAGTTTAGAAGCCACTGACTCCGCTTGGACAACCCCGATTACTGGCATAGCAGGCTT
TCCCTAAGGCTAACGCCAGAGAATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

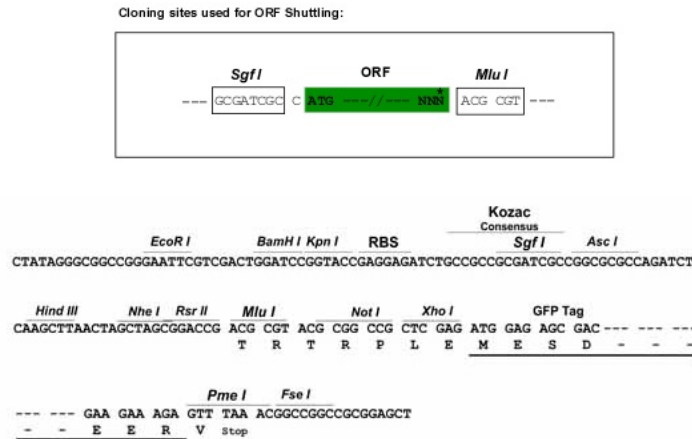
Protein Sequence: >MG211935 representing BC106091
 Red=Cloning site Green=Tags(s)

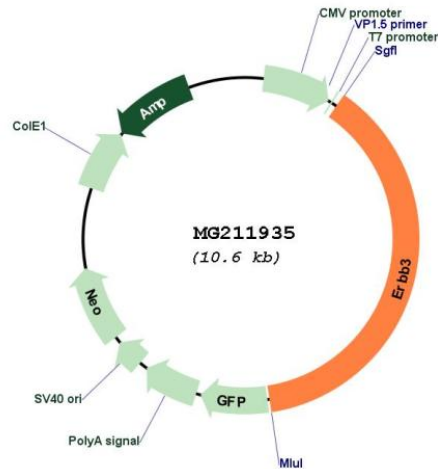
```
MSAIGTLQVLGFLLSLARGSEMGSQAVCPGTLNGLSVTGDADNQYQTL YKL YEKCEVVMGNLEIVLTGH
NADLSFLQWIREVTGYVLVAMNEF SVLPLPNLRVVVGTQVYDGF AIFVMLNYNTNSSHALRQLRFQLT
EILLGGVYIEKNDKLC HMDTIDWRDIVRVPDAEIVVKNNGGNCPPCHEVCKGRCWGP GPEDCQILTKTIC
APQCNGRCFGPNPNQCCHDECAGGCSGPQDTCFACRHFNDSGACVPRCPAPLVYNKLT FQLEPNPHIKY
QYGGVCVASC PHNFVVDQTF CVRACPADKMEVDK NGLKMCEPCRGLCPKACEGTGSGSRYQTV DSSNIDG
FVNCTKILGNLDFLITGLNGDPWHKIPALDPEKLN VFRTVREITGYLNIQSWPPHMHNF SVFNLTTIGG
RSLYNRGFSLLIMKNL NVTSLGFRSLKEISAGRVYISANQQLCYHHSLNWTRLLRGP AEERLDIKYNRPL
GECVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSREGVCVTHCNVLQGEPRFVHEAHCF SCHPECPME
GTSTCNGSGSDACARCAHFRDGP HC VN SCPHGILGAKGPIYKYPDAQNECRPCHENCTQGCKGPELQDCL
GQAEVLM SKPHLVI AVTVGLTVIFLILGGSFLYWRGRRIQNKRAMRRYLERGESIEPLD PSEKANKVLAR
IFKETELRKLKVLGSGVFGTVHKGIWIPEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAVGSLDHAHIV
RLLGLCPGSSQLV TQYLPLGSLLDHVRQHRETLGPQLLNWGVQIAKGMYYLEEHS MVHRDLALRNVML
KSPSQVQVADFGVADLLPPDDKQLLHSEAKTPIKWMALESIHF GK YTHQSDVWSYGVTVWELMTFGAEPY
AGLR LAEIPDLL EKGERLAQPQICTIDVYMMVKCWMIDENIRPTFKELANEFTRMARDPPRYLVIKRAS
GPGIPPAE PSALSTKELQDAE LEPDLDL DVEVEEGLATTLGSALSLPTGTLTRPRGSQSLSPSSG
YMPMNQSNLGEACLDSAVLGGREQFSRPISLHP IPRGRQTS ESSEGHVTGSEAE LQERVSMCRSRSRSR
PRPRGDSAYHSQRHSLLPV TPLSPPGLEEEDNGYVMPDTHLRGTS SSSREGT LSSVGLSSVLGTEEEDE
DEEY EYMNRRKRRGSPARPPRPGSLEELGYEYMDVGS DL SASL GSTQSCPLHPMAI VPSAGTTPDEDYEYM
NRRRGAGSGGDYAAMGACPAAEQGYEEMRAFQGP GHQAPHVRYARLKT LRSLEATDSAFDNPDYWH SRL
FPKANAQR I
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC106091

ORF Size: 4017 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: [BC106091.1](#)

RefSeq Size: 4911 bp

RefSeq ORF: 4019 bp

Locus ID: 13867

Cytogenetics: 10 77.1 cM

Gene Summary:

Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase. May also be activated by CSPG5. Involved in the regulation of myeloid cell differentiation.[UniProtKB/Swiss-Prot Function]