

Product datasheet for MC224281

ErbB3 (NM_010153) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ErbB3 (NM_010153) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	ErbB3
Synonyms:	C76256; ErbB-3; ErbB3r; Her3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224281 representing NM_010153 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGGCATTGGGACTCTGCAGGTGCTGGGTTTCTTCTCAGCCTGGCCGGGGTCCGAGATGGCA
ACTCTCAGGCAGTATGTCCTGGGACTCTAACCGGGCTGAGTGTGACCGGGCATGCTGACAACCAGTACCA
GACTGTACAACTCTATGAGAAGTGTGAGGTGGTCATGGTAACCTGGAGATTGTGCTTACGGGACAC
AATGCTGATCTTTCCTTCTGCAATGGATCCGAGAAGTGACAGGCTATGTACTGGTGGCCATGAATGAAT
TCTCTGTAAGTCCCTTACCTAACCTCCGAGTGGTCCGGGGAACCCAGGTCTACGATGGGAAGTTGCCAT
CTTTGTGATGTTGAACTACAATACCAACTCCAGCCATGCTCTGCGCCAGCTCCGGTTCAGCTCAGTTACT
GAGATTCTGTTAGGGGGCGTTTACATTGAGAAGAATGACAACTTTGCCACATGGATACAATTGACTGGA
GGGACATCGTGAGGGTCCAGACGCTGAGATAGTGGTGAAGAACAACGGGGGAACTGTCCACCCTGTCA
CGAAGTCTGCAAGGGGCGATGCTGGGGCCTGGACCAGAAGACTGCCAGATATTGACCAAGACCATCTGT
GCCCCCTCAGTGTAAACGGTCGCTGCTTCGGGCCAATCCTAACAGTGTGCCACGATGAATGTGACAGTG
GCTGCTCTGGACCCAGGACACAGATTGCTTCGCCTGCCGACACTCAATGACAGTGGTGCCTGTGTGCC
CAGGTGTCCAGCGCCCTTGTGTACAACAAGCTAACGTTCCAGCTTGAAGCCCAACCCCATATCAAGTAT
CAGTACGGAGGAGTCTGTGTTGCCAGTTGTCCCCATAACTTTGTGGTGGATCAGACATTTTGTGTCAGGG
CTTGCTCTGCTGACAAGATGGAAGTAGATAAGAATGGACTCAAGATGTGTGAGCCTTGACAGGGGCTGTG
CCCAAAAGCCTGTGAGGGGACGGGCTCTGGAAGCCGCTACCAGACCGTGGACTCTAGCAATATCGATGGG
TTCGTGAACTGTACCAAGATCCTGGGCAACCTGGACTTCTCATCACTGGCCTCAATGGTGACCCCTGGC
ACAAGATCCCTGCACTGGACCCGAAAAGCTCAATGTTTTTCAGGACAGTCCGGGAGATTACAGGCTACCT
AAACATCCAGTCCCTGGCCCCCTCATGCAACAACCTCAGTGTTTTTTCCAACCTGACGACCATCGGGGGC
AGAAGCCTCTACAATCGGGGCTTCTCCTTGTGATCATGAAGAACTTGAATGTCACGTCTCTGGGCTTCC
GGTCCCTGAAGGAAATTAGTGTGGGCGTGTCTACATAAGTGCCAATCAGCAACTTTGTTACCACCACTC
TCTGAACTGGACCAGACTTCTGCGGGGGCCCGCAGAGGAGAGACTTGACATCAAGTACAACCGGCCTCTG
GGAGAATGCGTGGCAGAGGGCAAAGTGTGTGATCCACTGTGCTCCTCTGGGGGATGCTGGGGCCAGGCC



CTGGTCAGTGCTTGTCTTGTGCGAACTACAGCCGGGAAGGTGTCTGTGTGACTACTGCAACGTTCTGCA
 AGGGGAACCCCGAGAGTTTGTTCATGAGGCTCATTGCTTCTCCTGCCATCCAGAATGCCAGCCCATGGAG
 GGCACCAGCACGTGCAATGGCTCGGGCTCCGACGCTTGTGCTCGATGCGCCCATTTTCGTGATGGGCCCC
 ACTGTGTGAACAGCTGCCCCATGGAATCCTAGGTGCCAAAGGTCCAATCTACAAATATCCAGATGCTCA
 GAATGAGTGCCGGCCCTGCCACGAGAAGTGCACCAAGGGTGAAGGGACCAGAAGTACAAGACTGTTTA
 GGCCAAGCAGAGGTATTAATGAGCAAACACACCTGGTCATAGCGGTGACAGTAGGACTGACTGTGATCT
 TCCTGATTCGGGAGGCTTTTTCTCTATTGGCGTGGACGAGGATTGAGAAATAAAGGGCTATGAGACG
 CTACTTGGAGCGGGTGAGAGCATCGAGCCTCTGGACCCAAGCGAGAAGGCAAACAAAGTCTTGGCTAGA
 ATCTTCAAAGAGACAGAGCTGAGGAAACTTAAGGTGCTTGGCTCTGGTGTCTTTGGAAGTGTACACAAGG
 GGATTTGGATTCCCGAGGGTGAATCCATCAAGATTCCAGTCTGCATTAAGTTCATCGAGGACAAGAGTGG
 GCGGCAGAGTTTTAGGCTGTGACTGATCAGTCTGCTGGCCGTCGGCAGCCTGGACCATGCCACATTGTA
 CGGCTGCTGGGACTGTGCCAGGGTCTCTGTCAGCTTGTCACTCAGTACTTGCCTCTGGGCTCTCTCC
 TTGATCATGTAAGACAGCACCGTGAGACTGGGACCACAGCTGCTGCTCAACTGGGAGTACAAATTGC
 CAAGGGTATGTATTACCTCGAGGAACACAGCATGGTGCATAGGGACCTTGCCTCCGGAATGTGATGCTT
 AAGTCACCGAGTCAAGTCCAGGTGGCAGATTTTGGTGTGGCTGACTTGTGCCCGCAGATGACAAGCAGT
 TACTACACAGTGAAGCCAAAGACTCCAATTAATGGATGGCCCTTGAGAGTATCCACTTTGGGAAATACAC
 ACACCAGAGTGTCTGGAGTTACGGTGAACCGTTTGGGAGTTGATGACCTTCGGGGCAGAGCCCTAC
 GCAGGGCTACGACTGGCTGAAATACCAGACCTGCTGGAGAAGGGAGAGCGGTTAGCACAGCCCCAGATCT
 GCACCATGACGTCTACATGGTCATGGTCAAGTGTGGATGATTGACGAGAATAATCGCCCAACCTTTAA
 AGAACTGGCCAATGAGTTTACCAGGATGGCCCGGGACCCACCAAGGTATCTGGTCATCAAGAGAGCGAGT
 GGGCCTGGAATACCTCCTGCAGCAGAGCCATCTGCTCTGAGCACCAAGAGTTGCAGGATGCAGAGCTGG
 AGCCAGACCTGGACCTCGACCTAGACGTGGAGGTAGAAGAGGAGGGCCTGGCGACCACACTGGGTTCTGC
 CCTCAGTTGCCACAGGAACGCTTACCGGGCCACGTGGGAGCCAGAGTCTTTAAGTCTTCTGCTGGA
 TACATGCCCATGAACCAGAGCAACCTTGGGGAGGCTTGTCTGGATTCTGCGGTTTTGGGGGGTTCGCGAAC
 AGTTCTCCCGTCCCATCTCTCTGCACCCGATCCCACGGGGCGTCAAACGTCAGAGTTCATCAGAGGGCCA
 TGTGACGGGCTCTGAGGCTGAACTCCAAGAGAGAGTATCAATGTGTAGGAGCCGGAGCCGGAGCCGGAGC
 CCACGGCCACGTGGGACAGTGCCTACCATTCGCAGCGACACAGCCTGCTTACTCCCGTACCCCCGCTCT
 CCCCACAGGGTTAGAGGAAGAGGATGGCAATGGTTATGTGATGCCAGATACGCACCTCAGAGGTACATC
 CTCTTCCCGGAAGGCACCCTTTCGTGAGTGGTCTCAGTTCTGTGCTGGGTACCGAAGAGGAAGATGAA
 GATGAGGAGTATGAATACATGAACCGGAAGAGGAGGGGTAGCCCGGCTCGGCCCCAGACTGGTTCCC
 TGGAAAGAGCTGGGCTATGAGTACATGGATGTGGGTTGAGACCTCAGTGTCTCTGGGCAGTACGCAGAG
 TTGCCACTCCATCCCATGGCCATCGTGCCTCTGCTGGCACGACTCCAGATGAGGACTATGAATACATG
 AACCGCAGGCGTGGTGGGGCGGTTCCGGAGGGGATTATGCAGCTATGGGGGCTGCCACAGCTGAAC
 AAGGGTATGAGGAAATGCGAGCTTCCAGGGGCTGGACATCAAGCCCCCATGTTGCTTATGCCCGCT
 CAAAATCTGCGTAGTTTGAAGCCACTGACTCCGCTTGGACAACCCGATTACTGGCATAGCAGGCTT
 TTCCTAAGGCTAACGCCAGAGAATTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010153
Insert Size: 4020 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_010153.1](#), [NP_034283.1](#)

RefSeq Size: 4020 bp

RefSeq ORF: 4020 bp

Locus ID: 13867

UniProt ID: [Q61526](#)

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]