

Product datasheet for RN210665

ErbB3 (NM_017218) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ErbB3 (NM_017218) Rat Untagged Clone
Tag:	Tag Free
Symbol:	ErbB3
Synonyms:	nuc-ErbB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210665 representing NM_017218 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGCGACTGGGACTCTGCAGGTGCTGTGCTTCTCAGCCTGGCCCGGGTTCCGAGATGGGCA
ACTCTCAGGCAGTGTCTCTGGGACTCTGAACGGACTGAGTGTGACCGGAGATGCAGACAACCACTACCA
GACGCTGTACAACTGTATGAAAAGTGTGAGGTGGTCAATGGGTAACCTGGAGATTGTGCTCACAGGACAC
AATGCTGACCTTCTCTGCAATGGATCCGAGAAGTGCAGGCTACGTCCTCGTGCCATGAATGAAT
TCTCTGTGCTTCCCTTGCTAACCTCCGAGTGGTCCGGGAACCCAGGTCTACGATGGGAAGTTCGCCAT
CTTTGTTATGTTGAACTACAACCAACTCCAGCCATGCTCTGCGCCAGCTCAAGTTCACCTCAGCTAACA
GAGATTCTGTGAGGGGGCTTTACATTGAAAAGATGACAACTTTGCCACATGGATACAATTGACTGGA
GAGACATCGTGAGGGTTCGAGGGCGCTGAGATAGTGGTGAAGAACAATGGTGCGAACTGTCCACCCTGTCA
TGAGGTCTGCAAGGGACGGTGTGGGGTCTGGACCGGACGACTGCCAGATATTGACCAAGACGATCTGT
GCCCCTCAGTGTAAACGGTCGCTGCTTCGGGCCAACCCCTAACAGTGTGTGACGATGAGTGTGCTGGGG
GCTGCTCTGGACCTCAGGACACAGATTGCTTTGCCTGCCGACGCTTCAATGACAGTGGGGCTGTGTGCC
CCGGTGTCCAGAGCCTCTTGTGTACAACAAGCTAACGTTTCAGCTTGAACCAACCCCATACCAAGTAT
CAGTATGGAGGAGTCTGCGTTGCCAGTTGTCCCATAACTTTGTGGTGGACGAGCCTTTGTGTGAGGG
CTTGCTCCTGACAAGATGGAAGTAGATAAGCACGGACTGAAGATGTGTGAGCCTTCCGGAGGGCTGTG
CCCCAAAGCCTGTGAGGGGACAGGCTCTGGAAGCCGCTACCAGACTGTGGACTCAAGCAACATTGATGGG
TTCGTGAACTGTACCAAGATCCTGGGCAATCTGGACTTCTCATCACCGCCTCAACGTTGACCCCTGGC
ATAAGATACCCGCACTGGACCGGAAAAGCTCAATGTTTTTCAGAACAGTCCGGGAGATCACAGGTTACCT
AAACATCCAGTCTGGCCCCCTCACATGCACAACCTCAGTGTTTTTTCCAATCTGACAACCATCGGGGGC
AGAAGCCTCTACAACCGGGCTTCTCTTGTGATCATGAAGAACTTGAATGTACATCCCTGGGTTTCC
GGTCCCTGAAGGAAATCAGTGTGGCGTGTCTACATAAGTGCCAATCAGCAGCTTGTCTACCACCCTC
TCTGAACTGGACCAGACTGCTTCGGGGCCCTCGGAAGAGAGACTTGACATCAAGTACGACCGGCCTCTG



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GGAGAATGCTTGGCAGAGGGCAAAGTGTGTGATCCACTGTGTTCTCTGGGGGATGCTGGGGCCAGGCC
CTGGTCAGTGTCTTGTCTGCGAACTACAGCCGGGAAGGTGTCTGTGTGACTACTGCAACTTCCTGCA
AGGGGAACCCCGGGAGTTTGTTCATGAGGCTCAATGCTTCTCCTGCCATCCAGAATGCCTACCCATGGAG
GGCACCAGCACATGCAATGGCTCGGGCTCTGACGCTTGTGCACGATGTGCTCATTTTTCTGACGGGCCCC
ACTGTGTGAACAGCTGCCCCATGGAATCCTAGGTGCCAAAGGTCCAATCTACAAGTATCCAGATGCTCA
GAATGAGTGTGCGCCCTGCCACGAGAATGCACCAAGGGTGAATGGACCAGAATACAAGACTGTTTA
GGCCAAGCAGAGGTGTTGATGAGCAAACCTCATCTGGTAATAGCGGTGACGGTGGGACTGGCCGTGATCC
TCATGATTCTGGGAGGCTCTTTTCTGTATTGGCGTGGACGAGGATTAGAAACAAAAGGGCTATGAGACG
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GGATTTGGATTCTGAGGGTGAATCCATCAAGATTCCAGTCTGCATTAAGTCAATCGAGGACAAGAGTGG
GCGCCAAAGTTTTCAAGCTGTGACTGACCATATGCTGGCCGTGGCAGCCTGGACCATGCCACATTGTA
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TTGATCATGTGAAACAGCACCGTGAGACATTGGGACCACAGCTGTGCTCAACTGGGAGTACAATTTGC
CAAGGGCATGTATTACCTCGAGGAACATAGCATGGTGCACAGGGACCTTTCGCTCCGGAAGTGTGCTC
AAGTACCAAGTCAAGTCCAGGTGGCAGATTTTGGTGTGGCTGACTTGTGCCACCAGATGACAAGCAGT
TGCTACATAGTGAGGCCAAGACTCCAATTAAGTGGATGGCCCTTGAGAGTATCCACTTTGGGAAATACAC
ACACCAGAGTGTCTGGAGTTATGGTGAACAGTTTGGGAGTTGATGACCTTCGGGGCAGAGCCCTAT
GCAGGGTTACGACTGGCTGAAATACCAGACCTGTAGAGAAGGGAGAGCGGTTAGCACAGCCCCAGATCT
GCACCATGACGTCTACATGGTCAAGTGTGGATGATTGATGAGAATATTCGCCAACCTTTAA
AGAAGTACCAATGAGTTTACCAGGATGGCCGTGACCCACCAAGGTATCTGGTCAAGAGAGCGAGT
GGGCTGGAACACCTCTGCGGCAGAACCTCTGTTCTGACCACCAAGAGTTGCAGGAGGACAGCTGG
AGCCAGAAGTGGACCTAGACCTAGACTTGGAGGCAGAGGAGGAGGCGCTGGCCACCTCCCTGGGTTCTGC
TCTCAGCTTGCCTACGGGAACGCTCACCCGGCCACGTGGGAGCCAGAGCCTTTTAAAGTCCCTCATCTGGG
TACATGCCATGAACCAGAGCAGTCTCGGAGAGGCTTGTCTGGATTCTGCGGTTTTGGGGGTCTGGAAC
AGTTCTCCCGTCCATCTCTCTGCACCCAATTCACGGGGCGTCCAGCATCAGAGTATCAGAGGGCCA
CGTGACAGGCTCTGAGGCTGAACTCCAAGAGAAAGTGTCAAGTGTAGGAGCCGAAGCCGGAGTCCGAGC
CCGCGGCTCTGTTGGGACAGTGCCTACCATTGCGAGCGACACAGCCTGCTTACTCCTGTGACCCCGCTCT
CCCCACCAGGGTTAGAGGAGGAGGACGGCAATGGCTACGTCATGCCAGATACACACCTCAGAGGTGCGTC
CTCCTCCCGGAAGGCACCTCTCGTCGGTAGGTCTCAGTCTGTGTTGGTACTGAGGAGGAAGATGAA
GATGAGGAGTATGAATACATGAACCGGAAGAGAAGGGGTAGCCCTCCTCGCCCCCAGGCTGGCTCCC
TGGAGAAGTGGGTTACGAGTACATGGATGTGGGTTAGACCTCAGTGTCTCTGGGCAGTACACAGAG
CTGCCCCGCTCCATCCCATGGCCATCGTGCCTCTGCTGGCACAACCTCCAGATGAAGACTATGAGTACATG
AACCGGAGGCGTGGTGGGGTGGCGCCGGAGGGGACTATGCAGCTATGGGGGCTGCCACAGCAGCTGAGC
AAGGGTACGAGGAGTGCAGCTTTCCAGGGGCTGGACATCACGCCCCCATGTTGTTATGCCCGCT
CAAACCTCTGCGTAGTTTAGAAGCCACCGACTCTGCCTTCGACAACCCCGATTACTGGCACAGCAGGCTT
TCCCCAAGGCTAATGCCAGAGAACGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1792_a01.zip

Restriction Sites: SgfI-MluI

ACCN: NM_017218

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_017218.2](#), [NP_058914.2](#)

RefSeq Size: 4220 bp

RefSeq ORF: 4020 bp

Locus ID: 29496

UniProt ID: [Q62799](#)

Cytogenetics: 7q11

Gene Summary: acts as a tyrosine kinase receptor for neuregulin; may play a role in axonal regeneration in response to injury [RGD, Feb 2006]