

## Product datasheet for **MC220688**

### **ErbB2 (BC046811) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ErbB2 (BC046811) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	ErbB2
Synonyms:	Neu, HER-2, c-erbB2, HER2, c-neu, mKIAA3023
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC046811  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTGGCGCCTGGTGCCGTTGGGGTTCCTCCTCGCCCTCCTGTCCCCGGAGCCGCGGGTACCC  
 AAGTGTGTACCGGTACCGACATGAAGTTGCGACTCCCTGCCAGTCTGAGACCCACCTGGACATGCTTCG  
 CCACCTCTACCAGGGCTGTCAGGTGGTGCAGGGCAATTTGGAGCTTACCTACCTGCCCGCAATGCCAGC  
 CTCTATTCTGCAGGACATCCAGGAAGTCCAGGGATACATGCTCATCGCTCACAACCGAGTGAAACACG  
 TCCCACCTGCAGAGGTTGCGCATCGTGAGAGGGACTCAGCTCTTTGAGGACAAGTATGCCCTGGTGTGCT  
 AGACAACCGAGACCCTTTGGACAACGTACCACCGCCGCCAGGCAGAACCCAGAAAGGGCTGCGGGAG  
 CTGCAGCTTGAAGTCTCACAGAGATCTTGAAGGGAGGAGTTTGGATCCGTGGGAACCCCTCAGCTGTCT  
 ACCAGGACATGGTTTTGTGAAGGATGTCTCCGTAAGAATAACCAGCTGGCTCCTGTGCAGATGGACAC  
 CAATCGTTCCCGGCCCTGTCCACCTTGTCCCAACCTGCAAAGACAATCACTGTTGGGGTGAGAGTCTCT  
 GAAGACTGTCAGATCTTGACTGGCACCATCTGTACTAGTGGCTGTGCCCGGTGCAAGGGCCGGCTGCCCA  
 CTGACTGTTGCCATGAGCAGTGTGCTGCAGGCTGCACGGGTCCCAAGCATTCTGACTGCCTGGCCTGCCT  
 CCACCTCAATCATAGTGGTATCTGTGAGCTGACTGCCCGGCCCTCATCACCTACAACACAGACACCTTC  
 GAGTCCATGCTCAACCTGAGGGTGCCTACACCTTTGGTGCCAGCTGTGTGACCACCTGCCCTACAACCT  
 ACCTCTCCACGGAAGTGGGATCCTGCACCTCTGGTCTGTCCCCGAACAACCAAGAGGTACAGCTGAGGA  
 CGGAACACAGCGGTGTGAGAAAATGCAGCAAGCCCTGTGCTGGAGTATGCTATGGTCTGGGCATGGAGCAC  
 CTCCGAGGGCGAGGGCCATCACCAGTGACAATATCCAGGAGTTTGTGGCTGCAAGAAGATCTTTGGGA  
 GCCTGGCATTTTTGGCGGAGAGCTTTGATGGGAACCCCTCCTCCGGCGTGGCCCACTGAAGCCAGAGCA  
 TCTCCAAGTGTTGAAACCCTGGAGGAGATCACAGGTTACCTATACATTTAGCATGGCCAGAGAGCTTC  
 CAAGACCTCAGTGTCTTCCAGAACCCTCGGGTCATTTCGGGGACGGATTCTCCATGATGGTCTTACTCAT  
 TGACGTTGCAAGGCCTGGGGATTCACTCACTGGGGCTACGCTCACTGCGGGAGCTGGGCAGTGGATTGGC  
 TCTCATTACCGCAACACCCATCTCTGCTTTGTAACACTGTACCTTGGGACCAGCTCTTCCGGAACCCG  
 CACCAGGCCCTACTCCACAGTGGGAACCGGCCAGAAGAGGCATGTGGTCTTGGGGCTTGGTCTGTAACCT  
 CACTGTGTGCCCGTGGGCACTGCTGGGGCCAGGGCCACCCAGTGTGCAACTGCAGTCACTTCTCCG  
 GGGCCAGGAGTGTGTGGAGGAGTCCGAGTATGGAAGGGGCTCCCAGGGAGTATGTGAGGGCAAGCAC  
 TGCTGCCATGCCACCCGAGTGTGAGCCTCAAACAGCTCGGAGACCTGCTATGGATCGGAGGCTGACC  
 AGTGTGAGGCTTGTGCCACTACAAGGACTCATCTTCTGTGTGGCTCGCTGCCCAAGTGGTGTGAAGCC  
 AGACCTCTCTACATGCCTATCTGGAAGTACCCGGATGAGGAGGGCATATGTCAGCCATGCCCATCAAC  
 TGCACCCACTCATGTGTGGACCTGGACGAACGAGGCTGCCAGCAGAGCAGAGAGCCAGCCAGTGCAT  
 TCATCATTGCAACTGTGGTGGCGTCTGTTGTTCTGATCATAGTGGTGGTCAATTGGAATCCTAATCAA  
 ACGAAGGCGACAGAAGATCCGGAAGTATACCATGCGTAGGCTGCTGCAGGAGACCGAGGTGAGGCGTGCC  
 GAGGGCCTCTAGCACCCCTTGGCTTTGCAGCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** BC046811  
**Insert Size:** 2136 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC046811</a></u> , <u><a href="#">AAH46811</a></u>
<b>RefSeq Size:</b>	4694 bp
<b>RefSeq ORF:</b>	2135 bp
<b>Locus ID:</b>	13866
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization (By similarity).[UniProtKB/Swiss-Prot Function]