

## Product datasheet for **MC229580**

### Erbin (NM\_001289473) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Erbin (NM\_001289473) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Erbin  
**Synonyms:** 1700028E05Rik; Erbb2ip; mKIAA1225  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229580 representing NM\_001289473  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTACAAAACGAAGTTTGTGGTTCGCGTTGGTACCATGTCGCTGTCTACGAGGAGAAGAGGAGACAG  
 TCACTACTCTAGATTATTCTCATTGCAGCTTGGAAACAAGTCCCAAAGAGATTTTCACCTTTGAAAAAC  
 TTTAGAGGAGCTCTATTTAGATGCTAATCAGATTGAAGAGCTTCAAAGCACTTTTAAATTGTCAGTCT  
 CTACATAAACTAAGTTTGCAGACAATGATTTAACAACATTACCAGCCTCCATTGCAAATCTTATTAATC  
 TCAGGGAAGTGGATGTCAGCAAAAATGGAATACAAGAATTTCCAGAAAATATTAATAAATTGTAAAGTTT  
 GACAATTGTGGAGGCTAGTGTGAACCTATTTCTAAGCTCCCTGATGGGTTTTCTCAGCTGCTAAACCTA  
 ACCCAGTTATATCTGAATGATGCTTTCCTTGAATCTTACCAGCTAATTTGGCAGATTAACATAACTCC  
 AGATTCTAGAAGTCTAGAGAAAACAGTTGAAAATGTTGCCTAAAACCATGAATAGACTGACCCAGCTGGA  
 AAGGCTGGATTTGGGAAGTAATGAATTCACAGAAGTGCCTGAAGTACTTGAACAACATAAGTGGATTGAGA  
 GAGTTTGGATGGATGGCAATAGACTGACTTTTATCCAGGTTTATTGGTAGTTGAGACAGCTCACGT  
 ACTTGGATGTTTCTAAAAATAATTGAAATGGTTGAAGAAGGAATTTCAACATGTGAAAACTCCAGGA  
 CTTTCTTATCAAGTAATTCCTTCAGCAGCTGCCGAAACTATTGGTTCATTGAAAAATGTCACAAC  
 CTAAAAATTGATGAAAACCAATTAATGTATCTACCAGACTCAATAGGAGGGTTAAGGTCAATAGAAGAAC  
 TGGATTGCAGTTTCAATGAAATTGAAGCTTTCCTTCAATTGGCCAGCTCACAAACATGAGAACATT  
 TGCTGCAGATCACAATTACTTACAACAGCTACCCCGAGAGATTGGAAACTGGAAAAATATAACTGTGCTG  
 TTTCTCCATTGTAATAAACTAGAGACGCTTCCAGAGGAAATGGGTGATATGCAAAAATTAAGTGCATCA  
 ATTTAAGTGATAATAGGTTAAAGAATTTGCCTTTAGCTTTACAAAGCTACAACAGTTGACTGCTATGTG  
 GCTGTCAGATAATCAGTCCAACCTCTGATACCTTTCAAAAAGAAACAGACACAGAGACTCAGAAAATG  
 GTGCTTACTAATTACATGTTCCCTCAGCAGCCACGGACTGAAGACGTTATGTTTCATATCAGATAATGAAA  
 GTTTTAATCCTGCATTGTGGGAAGAACAGAGAAAACAGCGGGCTCAAGTGGCATTGGAATGTGATGAAGA  
 CAAAGATGAAAGAGAGGCCACCCAGGGAGGAACTTAAAGAGATATCCAACCCATACCCAGATGAG  
 CTTAAGAATATGGTCAAGACTGTTCAAACCATTGTACATAGATTAAGATGAAGAGACTAATGAAGAGT



CTGGGAGAGATTTGAAGCAGCATGAAGATCAGCAAGTTGTAATAAGGATAAGTGTGTGAAGACTTCAGA  
 AAGTACTACAACAAAAGCAAACCTTGATGAAAGAGAAAAGTATATGAATTCTGTACAGAAAATGAGTGAG  
 CCTGAAGCTGAGACCAATGGTGGAAATTTGCCAGTAACTGCAAGTATGAAGTTGTCTGGAAACCTGAAGC  
 ATATTGTTAACCATGATGATGTTTTGGAGAACTCTGAAGAAGTTCTTCTGTATGAAGAAATGAAAATGGC  
 AGAGATGCGACCTCCATTAATGAATCCTCGATTAATCAGCCAAAGTTGTAGCACTTAGTAATAATAAA  
 AAGGATGATGCGAAGGATGCAGACTCTTATCCGATGAAGTACACACAACAGTAATCAGAATAACAGCA  
 ACTGTTCTCCCGTCCCGAATGTCTGATTGATGCTCTTAATACTGACAGCAGTCAAGACACGCTCACT  
 CTGTTCTCCCGTGAACAGACTCCCGTGGATAGTAACTCAAAGTCAGACAAGAAGATGAAAATTTTAAAC  
 AGCCTTTTACAAAATGGAGTTAATTTAAACAATTCACCAGAGGAAAAATTCAAAATTAATGATAAAAAGG  
 ATTTTAAAGTTACCTGAGTATGATTTGAATATTGAAGAACAGTTAGTTCTGATTGAAAAAGACATTGATTC  
 AAAAGCCACATCTGATGACTCTCGCCAGTTAGACCATATCAACATGAATATTAATAAACTTGTGACCAAT  
 AATATTTTTCAACCAGAAGTAATGGAAAGATCAAAGATGCAGGATATAGTACTTGGAACAGGCTTTTTAA  
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 TAAGGTAATGGTCTTTGTGAGGACACTGCACCGTCTCCTGGTAGGGTTGAACCACAGAAGGCCAGTTCT  
 TCTGCTGACGTGGGCATTTCTAAAAGCACGGAAGATCTATCTCCTCAGAGAAGTGGTCCAACCTGGAGCTG  
 TTGTGAAATCTCATAGTATAACTAACATGGAGACTGGAGGTTTAAAAATCTATGACATTCTTGGTATGA  
 TGGCCCTCAGCCGCAAGTGCAGCAGTTAAAATCGCATCTGCTGTGGATGGGAAGAACATAGTCAGAAGC  
 AAGTCTGCCACACTGCTGTATGATCAGCCCTGCAGGTGTTCACTGCTGCCTCCTCATCTTCTGAGTTAC  
 TGTGAGGTACAAAGGCAGTTTTCAAGTTTGATTCAAAATCACACCCTGAAGAGCCAGATATAATAAGAGC  
 TGCCACAGTATCTGGCCACAGTCTACACCTCACCTGTATGGTCCCCACAATATAATGTCCAGTACAGT  
 GGCAGTGCTACAGTGAAGACACCTTGTGGCACCTAACAGAATCCACAATAGATCCTGTGAGTTTTCT  
 CTCCTCAGCGCCTTCCAAGATCTGAGAGTGCAGAAAATCACAGTTATGCAAAGCATTCTGCCAACATGAA  
 TTTCTTAACCATAACAATGTTAGAGCCAATACTGGATACCACTTACAACAGAGACTTGCCCCAGCCAGG  
 CATGGAGAAAATGTGGGCTATCTCCCGAATGACCGACTAGTGCCAGCAGTCACTCGGACTACTTTCAGA  
 GACAGAGTAGCGTGTCTTCAACGGCTTCTGTAATCTCGGTGACCCCAAGGCCTACTGAAGGAGATTA  
 CTTATCGTACAGAGAGTTACATTCAATGGGAAGAACTCCAGTCATGTCAGGATCACAGAGACCTCTTTCT  
 GCACGAGCGTACAGCATCGATGGCCAAAATACATCCAGGCCTCAGAGTGCCTCCTCTATTAATGAAA  
 TACCAGAGAGAACTATGTCAGTTAGTGATTTCAATTACTCACGGACTAGTCTTCAAAAAGACCAATAC  
 AAGGGTCGGGTCTGAACATTCTGTAGATCCTCCAGGAAAAAGCAAGGTTCTCATGACTGGCGGGAA  
 CAAGTACTACGACATTGAGGCCAAAAGTTAGAAAAGCATCCGACAGATCCAGTCCAGGAGAGTGTT  
 GCCAAGATGATAGATTATGTCAGAAGAGCAGAACCACCCATCAGGTGCCTTAGTCACAGAGGTCTTCC  
 AGACAGCCTGATGAAAATGCCTTTGAGTAATGGACAAATGGGCCAGCCTCTCAGGCCTCAGGCACATTAT  
 AGTCAAACCCATCACCCCTCAGGCATCTGTGGCAAGGCATCCCTCTAGAGAACAATAATTGATTATT  
 TGATGCTGAAAGTGGCCACCAGCCTCCATATACACATCCCCATTGTTCTCCTAGACAAGGCCATGAACT  
 GGCAAAGCAAGAGATTCGAGTAAGAGTAGAAAAGGATCCAGAAGTTGGATTTAGCATATCAGGAGGTGTC  
 GGCGGCAGAGGAAACCCCTTTCAGACCTGATGATGATGGTATATTTGTAACAAGGGTACAACCTGAAGGAC  
 CAGCATCAAAATTAACAGCCAGGAGATAAAATTAATTCAGGCTAATGGCTACAGTTTTATCAACATTGA  
 ACATGGGCAAGCGGTGTCCTTGTAAAACTTTCCATAATGCAGTAGATCTATCATTGTACGAGAAGTT  
 TCTTCATAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001289473

**Insert Size:**

4209 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001289473.1, NP_001276402.1</u>
<b>RefSeq Size:</b>	6530 bp
<b>RefSeq ORF:</b>	4209 bp
<b>Locus ID:</b>	59079
<b>UniProt ID:</b>	<u>Q80TH2</u>
<b>Cytogenetics:</b>	13 D1
<b>Gene Summary:</b>	<p>Acts as an adapter for the receptor ERBB2, in epithelia. By binding the unphosphorylated ERBB2 'Tyr-1248' receptor, it may contribute to stabilize this unphosphorylated state (By similarity). Inhibits NOD2-dependent NF-kappa-B signaling and proinflammatory cytokine secretion (PubMed:16203728).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the 3' coding region, compared to variant 1, and encodes a shorter protein (isoform 3), compared to isoform 1.</p>