

Product datasheet for **SC309924**

ErbB 4 (ERBB4) (NM_005235) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ErbB 4 (ERBB4) (NM_005235) Human Untagged Clone
Tag: Tag Free
Symbol: ErbB 4
Synonyms: ALS19; HER4; p180erbB4
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005235 edited
 ATGAAGCCGGCGACAGGACTTTGGGTCTGGGTGAGCCTTCTCGTGGCGGGGGACCCTG
 CAGCCCAGCGATTCTCAGTCAGTGTGTGCAGGAACGGAGAATAAACTGAGCTCTCTCT
 GACCTGGAACAGCAGTACCGAGCCTTGCGCAAGTACTATGAAAACGTGAGGTTGTCATG
 GGCAACCTGGAGATAACCAGCATTGAGCACAACCGGGACCTCTCCTTCCTGCGGTCTGTT
 CGAGAAGTACAGGCTACGTGTTAGTGGCTCTTAATCAGTTTCGTTACCTGCCTCTGGAG
 AATTTACGCATTATTCGTGGGACAAAACCTTATGAGGATCGATATGCCTTGGCAATATTT
 TAAACTACAGAAAAGATGGAACTTTGGACTTCAAGAACTTGGATTAAGAAGCTTGACA
 GAAATCCTAAATGGTGGAGTCTATGTAGACCAGAACAAATTCCTTTGTTATGCAGACACC
 ATTCATTGGCAAGATATTGTTCCGAACCCATGGCCTTCCAACCTTGACTCTGTGTCAACA
 AATGGTAGTTCAGGATGTGGACGTTGCCATAAGTCTGTACTGGCCGTTGCTGGGGACCC
 ACAGAAAATCATTGCCAGACTTTGACAAGGACGGTGTGTGCAGAACAAATGTGACGGCAGA
 TGCTACGGACCTTACGTCAGTGACTGCTGCCATCGAGAATGTGCTGGAGGCTGCTCAGGA
 CCTAAGGACACAGACTGCTTTGCCTGCATGAATTTCAATGACAGTGGAGCATGTGTTACT
 CAGTGTCCCCAAACCTTTGTCTACAATCCAACCACCTTTCAACTGGAGCACAAATTTCAAT
 GCAAAGTACACATATGGAGCATTCTGTGTCAAGAAATGTCACATAAATTTGGTGTAGAT
 TCCAGTTCTTGTGTGCGTGCCTGCCCTAGTTCGAAGATGGAAGTAGAAGAAAATGGGATT
 AAAATGTGTAACCTTGCAGTGCATTTGCCAAAAGCTTGTGATGGCATTGGCACAGGA
 TCATTGATGTGAGCTCAGACTGTGGATTCCAGTAACATTGACAAAATTCATAAACTGTACC
 AAGATCAATGGGAATTTGATCTTTCTAGTCACTGGTATTTCATGGGGACCCCTTACAATGCA
 ATTGAAGCCATAGACCCAGAGAACTGAACGCTTTTCGGACAGTCAGAGAGATAACAGGT
 TTCCTGAACATACAGTCAATGGCCACCAACATGACTGACTTCAGTGTGTTTTTCTAACCTG
 GTGACCATGGTGAAGAGTACTCTATAGTGGCCTGTCCTTGCTTATCCTCAAGCAACAG
 GGCATCACCTCTACAGTTCAGTCCCTGAAGGAAATCAGCGCAGGAAACATCTATATT
 ACTGACAACAGCAACCTGTGTTATTATCATACCATTAAGTGGACAACACTCTTCAGCACA
 ATCAACCAGAGAATAGTAATCCGGGACAACAGAAAAGCTGAAAATGTACTGCTGAAGGA
 ATGGTGTGCAACCATCTGTGTTCCAGTGTGGCTGTTGGGGACCTGGGCCAGACCAATGT



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CTGTCGTGTCGCCGCTTCAGTAGAGGAAGGATCTGCATAGAGTCTTGTAACCTCTATGAT
 GGTGAATTTCCGGGAGTTTGAAGTGGCTCCATCTGTGTGGAGTGTGACCCCCAGTGTGAG
 AAGATGGAAGATGGCCTCCTCACATGCCATGGACCGGGTCTGACAACTGTACAAAGTGC
 TCTCATTTTAAAGATGGCCCAAAGTGTGTGAAAAATGTCAGATGGCTTACAGGGGGCA
 AACAGTTTCATTTCAAGTATGCTGATCCAGATCGGGAGTCCACCCATGCCATCCAAAC
 TGCACCAAGGGTGAACGGTCCCAGTGTGATGCTGATGCTGATGCTGATGCTGATGCTGAT
 CATTCCACTTTACCACAACATGCTAGAACTCCCCTGATTGCAGCTGGAGTAATTGGTGGG
 CTCTTCATTCTGGTCAATTGTGGTCTGACATTTGCTGTTTATGTTAGAAGGAAGAGCATC
 AAAAAAGAAAAGAGCCTTGAGAAGATTCTTGAAAACAGAGTTGGTGAACCATTAACCTCC
 AGTGGCACAGCACCCAATCAAGCTCAACTTCGATTTTTGAAAAGAACTGAGCTGAAGAGG
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 GGAGAACTGTGAAGATTCTGTGGCTATTAAGATTCTAATGAGACAACTGGTCCCAAG
 GCAAAATGTGGAGTTCATGGATGAAGCTCTGATCATGGCAAGTATGGATCATCCACACCTA
 GTCCGGTTGCTGGGTGTGTGCTGAGCCCAACCATCCAGCTGGTACTCAACTTATGCC
 CATGGCTGCCTGTGGAGTATGTCCACGAGCACAAAGATAACATTGGATCACAACCTGCTG
 CTTAACTGGTGTGTCAGATAGCTAAGGAATGATGTACCTGGAAGAAAGACGACTCGTT
 CATCGGGATTTGGCAGCCCGTAATGTCTTAGTGAATCTCCAAACCATGTGAAAAACACA
 GATTTTGGGCTAGCCAGACTCTTGAAGGAGATGAAAAAGAGTACAATGCTGATGGAGGA
 AAGATGCCAATTAATGGATGGCTCTGGAGTGTATACATTACAGGAAATTCACCCATCAG
 AGTGACGTTTGGAGCTATGGAGTACTATATGGAACTGATGACCTTTGGAGGAAAACCC
 TATGATGGAATCCAACGCGAGAAATCCCTGATTTATTAGAGAAAGGAGAACGTTTGCCT
 CAGCCTCCCATCTGCACTATTGACGTTTACATGGTTCATGGTCAAATGTTGGATGATTGAT
 GCTGACAGTAGACCTAAATTTAAGGAAGTGGCTGCTGAGTTTTCAAGGATGGCTCGAGAC
 CCTCAAAGATACCTAGTTATTACAGGGTATGATCGTATGAAGCTTCCCAGTCCAAATGAC
 AGCAAGTTCTTTTCAAGTCTCTTGGATGAAGAGGATTTGGAAGATATGATGGATGCTGAG
 GAGTACTTGGTCCCTCAGGCTTTCAACATCCCACCTCCCATCTATACTTCCAGAGCAAGA
 ATTGACTCGAATAGGAGTGAATTTGGACACAGCCCTCCTCCTGCCTACACCCCCATGTCA
 GGAAACCAGTTTGTATACCGAGATGGAGGTTTGGCTGCTGAACAAGGAGTGTCTGTGCC
 TACAGAGCCCCAACTAGCACAAATCCAGAAGCTCCTGTGGCACAGGGTGTACTGCTGAG
 ATTTTTGATGACTCCTGTGTAATGGCACCTACGCAAGCCAGTGGCACCCCATGTCCAA
 GAGGACAGTAGCACCCAGAGGTACAGTGTGACCCACCGTGTGGCCCCAGAACGGAGC
 CCACGAGGAGAGCTGGATGAGGAAGTTACATGACTCCTATGCGAGACAAACCCAAACAA
 GAATACCTGAATCCAGTGGAGGAGAACCCTTTTGTCTCGGAGAAAAATGGAGACCTT
 CAAGCATTGGATAATCCCGAATATCACAATGCATCCAATGGTCCACCCAAAGGCCGAGGAT
 GAGTATGTGAATGAGCCACTGTACCTCAACACCTTTGCCAACCTTGGGAAAAGCTGAG
 TACCTGAAGAACAACATACTGTCAATGCCAGAGAAGGCCAAGAAAGCGTTTGACAACCT
 GACTACTGGAACCACAGCCTGCCACCTCGGAGCACCTTCAGCACCCAGACTACCTGCAG
 GAGTACAGCACAAAATATTTTTATAAACAGAATGGGCGGATCCGGCCTATTGTGGCAGAG
 AATCCTGAATACCTCTCTGAGTTCTCCTGAAGCCAGGCACTGTGCTGCCGCCTCCACCT
 TACAGACACCCGAATACTGTGGTGTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005235
- Insert Size:** 6700 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).
- OTI Annotation:** It is not a variant.

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:	<ol style="list-style-type: none">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:	<u>NM_005235.1</u> , <u>NP_005226.1</u>
RefSeq Size:	11941 bp
RefSeq ORF:	3927 bp
Locus ID:	2066
UniProt ID:	<u>Q15303</u>
Cytogenetics:	2q34
Domains:	Recep_L_domain, pkinase, TyrKc, S_TKc, YLP, Furin-like, FU
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Calcium signaling pathway, Endocytosis, ErbB signaling pathway
Gene Summary:	<p>This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (JM-a/CYT-1) represents the longer transcript and encodes the longer isoform (JM-a/CYT-1).</p>