

Product datasheet for **SC323669**

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:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323669 sequence for NM_005235 edited (data generated by NextGen Sequencing)

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ATGAAGCCGGCGACAGGACTTTGGGTCTGGGTGAGCCTTCTCGTGGCGGGGGACCGTC
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AATCCTGAATACCTCTCTGAGTTCTCCCTGAAGCCAGGCACTGTGCTGCCGCCTCCACCT
TACAGACACCGGAATACTGTGGTGTA

Clone variation with respect to NM_005235.2
2252 a=>t;3195 a=>g

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_005235 unedited CCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCACGCGGCCCGGCT GGGGGATCTCCTCCGCGTGCCCGAAAGGGGATATGCCATTTGGACATGTAATTGTCAGCACGGGATCTG AGACTTCAAAAAATGAAGCCGGCGACAGGACTTTGGGTCTGGGTGAGCCTTCTCGTGCCGGCGGGGACC GTCCAGCCAGCGATTCTCAGTCTGTGTGTGCAGGGACCGGAAAAAAAACAGCCCTTTTTTTC TTTTGGCCCGGAAACCAGCAGTACCCGAACCCCTTGCCCAAGTTACCTTATGAAAACGTGTGGGAGG GTTTGTCCAGTGGGCCACCCCTTGAAAAATTAACCCAGCCATTTGGACCCACAACCGGGGAACCCCTC TTCTTTCCCTGGGCGGTTTCTGTGTTCCAAAAAATTACACCAGGGCCACCCGGGTGTATAGTGTGGCC CTTTCTAAAATCCAGTTTTTGTGTTTACGCGGGGCCCTTCTGGGAAAAAATTTCTCCGCCTCATTAT ATTTGGGGGGGAACACACAATTTTTATAGGAGAGGAGTACTGAGTACTTCGCCGCGCTGTGGCAATA TTTTTATTACACTCCACAGAAAAAGAGAAGGGGACCCCTGTGGCACTCTCAAGAGAACCTGGTGG AATAAGAAGCAATCATCTGGACACATATCTACTCTATATGATGTGCTCGTAGATCT
Kinase Domain Sequence:	>SC323669 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation TAGTCRTTGGCTAGTGCCTTTGGACGGTTATAAAGGTATTTGGGTACCTGAAGGAGAACTGTGAAGAT TCCTGTGGCTATTATGATTCTTAATGAGACAACGGTCCCAAGGCAAATGTGGAGTTCATGGATGAAGCT CTGATCATGGCAAGTATGGATCATCCACACCTAGTCCGGTTGCTGGGTGTGTCTGAGCCCAACCATCC AGCTGGTTACTCAACTTATGCCCATGGCTGCCTGTTGGAGTATG
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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	NM_005235.1 , NP_005226.1
RefSeq Size:	11941 bp

RefSeq ORF:	3927 bp
Locus ID:	2066
UniProt ID:	Q15303
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>