

Product datasheet for **SC108485**

HB EGF (HBEGF) (NM_001945) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HB EGF (HBEGF) (NM_001945) Human Untagged Clone
Tag:	Tag Free
Symbol:	HB EGF
Synonyms:	DTR; DTS; DTSF; HEGFL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001945 edited
GAATTCGGCACGAGGGCTACGCGGGCCACGCTGCTGGCTGGCCTGACCTAGGCGCGCGGG
GTCGGGGCGGCCGCGCGGGCGGGCTGAGTGAGCAAGACAAGACTCAAGAAGAGCGAGCT
GCGCCTGGGTCCCAGCCAGGCTTGACAGCAGAGGGCGGGCAGACGGTGCCTGGCGGAA
TCTCCTGAGCTCCGCCGCCAGCTCTGGTGCCAGCGCCAGTGGCCGCGCTTCGAAAGT
GACTGGTGCCCTCGCCCTCCTCTCGGTGCGGGACCATGAAGCTGCTGCCGTGGTGGTG
CTGAAGCTCTTTCTGGCTGCAGTTCTCTCGGCACTGGTGACTGGCGAGAGCCTGGAGCGG
CTTCGGAGAGGGCTAGCTGCTGGAACCAAGCAACCCGACCTCCACTGTATCCACGGAC
CAGCTGCTACCCCTAGGAGGCGGGCCGGACCGAAAGTCCGTGACTTGCAAGAGGAGAT
CTGGACCTTTTGAGAGTCACTTTATCCTCCAAGCCACAAGCACTGGCCACACAAACAAG
GAGGAGCACGGGAAAAGAAAGAAAGCAAGGGGCTAGGGAAGAAGAGGGACCATGT
CTTCGAAATACAAGGACTTCTGCATCCATGGAGAATGCAAAATGTGAAGGAGCTCCGG
GCTCCCTCCTGCATCTGCCACCCGGTTACCATGGAGAGAGGTGTATGGGCTGAGCCTC
CCAGTGGAAAATCGCTTATATACCTATGACCACACAACCATCCTGGCCGTGGTGGCTGTG
GTGCTGTATCTGTCTGTCTGTGGTTCATCGTGGGGCTTCTCATGTTTAGGTACCATAGG
AGAGGAGGTTATGATGTGAAAAATGAAGAGAAAGTGAAGTTGGGCATGACTAATCCAC
TGAGAGAGACTTGTGCTCAAGGAATCGGCTGGGACTGCTACCTCTGAGAGACACAAGG
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AATATTTCAAGTGCCTAGACTGTTACTTTGGCAATTTCTGGCCCTCCACTCCTCATCCC
CACAATCTGGCTTAGTGCCACCCACCTTTGCCACAAGCTAGGATGGTCTGTGACCCAT
CTGTAGTAATTTATTTGTCTGTCTACATTTCTGCAGATCTTCCGTGGTCCAGAGTCCACTG
CGGGAGCTCTGTATGGTCAAGGATGTAGGGGTTAACTTGGTCCAGAGCCACTCTATGAGTTG
GACTTCAGTCTTGCCTAGGCGATTTTGTCTACCATTTGTGTTTTGAAAGCCCAAGGTGCT
GATGTCAAAGTGTAAAGATATCAGTGTCTCCCGTGTCTCCTGTCAAGTCTCAGA
AGAGGTTGGGCTTCCATGCCTGTAGCTTTCCTGGTCCCTACCCCATGGCCCCAGGCC
ACAGCGTGGGAAGTCACTTTCCCTTGTGTCAAGACATTTCTAACTCCTGCCATTCTTC
TGGTGCTACTCCATGCAGGGTCAAGTGCAGCAGAGGACAGTCTGGAGAAGGTATTAGCAA
AGCAAAAGGCTGAGAAGGAACAGGGAACATTGGAGCTGACTGTTCTTGGTAACTGATTAC
CTGCCAATTGCTACCGAGAAGGTTGGAGGTGGGAAGGCTTTGTATAATCCCACCCACCT
CACCAAAACGATGAAGTTATGCTGTCTATGGTCTTCTGGAAGTTCTGGTGCCATTTCT
GAACTGTTACAACCTGTATTTCCAAACCTGGTTCATATTTATACTTTGCAATCCAATAA
AGATAACCCTTATTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001945 unedited</p> <pre>NNNGGTTTCGCATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGC TACGCGGGCCACGCTGCTGGCTGGCCTGACCTAGGCGCGCGGGGTGCGGCGGCCGCGCGG GCGGGCTGAGTGAGCAAGACAAGACTCAAGAAGAGCGAGCTGCGCCTGGTCCCAGGCC AGGCTTGACGACGAGAGCGGGCGGCAGACGGTGCCCGCGGAATCCTGAGCTCCGCGC CCCAGCTCTGGTGCCAGCGCCAGTGCCCGCGCTTCGAAAGTACTGGTGCCTCGCCGC CTCCTCTCGGTGCGGGACCATGAAGCTGCTGCCGTGCGTGGTGTGCTGAAGCTCTTTCTGGC TGCAATTTCTCTCGCACTGGTACTGGCGAGAGCCTGGAGCGGCTTCGGAGAGGGCTAGC TGCTGGAACCAAGCAACCCGACCTCCCACTGTATCCACGGACCACTGCTACCCCTAGG AGGCGGCCGGGACCGAAAGTCCGTGACTTGCAAGAGGCAGATCTGGACCTTTTGAGAGT CACTTTATCCTCAAGCCACAAGCACTGGCCACACCAACAAGGAGGAGCACGGGAAAAG AAAGAAGAAAGGCAAGGGGCTAGGGAAGAAGAGGGACCCATGTCTTCGAAATACAAGGA CTTCTGCATCCATGGAGAATGCANATATGTGAAGGAGCTCCGGGCTCCCTCCTGCATCTG CCACCCGGTTACCATGGAGAGAGGTGTCATGGGCTGAGCCTNCCAGTGGAAAATCGCTT ATATACCTATGACCACACACCATCTGGCCGTGGTGGCTGTGGTGTGCTATCTGTCTGT CTGCTGGTCATCGTGGGGCTTNCATGTTAGGTACCCATAGAGAGGGAGTNATGATGTN GNAATGAAGAAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001945 unedited</p> <pre>GGCAGCAATCTAGTATCGAGTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGAATAAGGGTTTTTTTTTTTTGGATTGCAA AGTTTAAATATGAACCAGTTTGGAAATACAAGTTGTAACAGTTCAAAAATGGCCCAAA AACTTCCAAAAAGGACCTGACAGCATAACTTCTTTGTTTTGGGAGGGGGGGGATTA TACAAAGCCTTCCCACTTCAACCTTTTTGGGAGCAATTGGGAGTAATTAGTTACAA AAACAGGCAGTCCAATGTTCCCTGTTCTTTAAACCTTTTGGTTTGGTAAAACCTTTT CCAAAAATGTCCTTTGGTGGACTGACCCCTGGTTGGGTACCCCAAAAAAATGGGAGGAG TAAAAAATGTCTTGACACAAGGAAAGGGAGTTCCACCTGGGGGCTGGGGCCATG GGGGGAGGGACCAAAAAAGCTACAGGCTTGAAGCCCAACCTTTTTGAAACTTGACAG GGAGAGGACACGGGAAACACTGATTTTTGTTACACTTTGACATCAACACCTTGGGCTTT AAAAACAAAAATGGGAGACAAAAATCGCCTAGGGAAGACTGAAGTCCAACATAGAGGGG CTCTGACCAAGTTAACCCCTACATTCTGACCATACAAAGCTCCCGCAGTGGCACTTTGAC CCGAAGATCTGCAAAATGTTAACGGACAATTAATTTCTACAGATGGGTCCACAGACCA TCCTTACCTTTGTGCAATGTGGGTGGCACTATACCATATTGGGGATATAGATTGAAGG CCCCNAAAATGCCAAAGAACAGCTAGGCCCTTAAATTTATGGTAATTGGNAAACCTCATA TTTACCTCTGAATAATAAATTTTTTTTAAAGGGCTTCCAACACACCACCAATTTTGTTA TTTCTCGGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001945
Insert Size:	2440 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).
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_001945.1 , NP_001936.1
RefSeq Size:	2360 bp
RefSeq ORF:	627 bp
Locus ID:	1839
UniProt ID:	Q99075
Cytogenetics:	5q31.3
Domains:	EGF
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, GnRH signaling pathway
Gene Summary:	Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.[UniProtKB/Swiss-Prot Function]