

Product datasheet for **MC202877**

Eng (NM_007932) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eng (NM_007932) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eng
Synonyms:	A1528660; A1662476; CD105; Endo; S-endoglin
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC029080 sequence for NM_007932
 CCGACGCGTGGGCGCCGACAGCTGCTGCCGAAAGAGCCAGTACTCTTTCCACCACCCAGTCAGCT
 AGAGACTCCTGCCCTGCTGTGAGTCTCGAGCCACTTCTCCTGACTTCTCCGCCGCACCTCAGAAGGCT
 GGAGCAGGGACGTGGTCGCTCCGGCCGCTGCTCCCTCGGATCCCCGCGCAACCCACGCAGGCCCCGG
 CGCCCGCCGACGCTTACCTCTGGATACCGGATAAGGCCAGCGCACAGACTCCCGGTGGACAGCATG
 GACCGTGGCGTCTCCCTCTGCCATTACCCTGCTGTTTGTATCTATAGCTTTGTACCCACAACAGGTC
 TCGCAGAAAGAGTCGGCTGTGATCTACAGCCTGTGGACCCACAAGGGGTGAGGTGACGTTTACCACCAG
 CCAGTCTCCGAGGGCTGTGTAGCTCAGGCTGCCAATGCTGTGCGTGAAGTCCACGTTCTCTTCCCTGGAT
 TTTCCCGAATGTGTACATCTGGAGTACTCTTACGATCAAGCAAAAATGGCACGGAGACCCAGG
 AGGTGTTCTGCTCGTTTCGAACAAAAATGTCTTCTGTAAGTTCCAGGCCCGGAAATCCCATTGCA
 CTTGGCTACGACTCCAGCCTGGTCACTTCCAAGGACAGCAAGAGTCAACATCACAGTCTACCATCC
 CTTACCTCCAGAAACAGATCCTCGACTGGCAGCCACCAAGGGCGCCATCACCTCGATAGCAGCACTGG
 ATGACCCCAAAGCATCGTCTCCAGTTGGGCAAGACCAAGGCACCATTTCTGTGCTGCCAGAAGC
 TACAAGGACATGGGCGCACACTTGAATGGCAACCACGAGCCAGACCCAGTCCAAGCTGTCGCTTG
 GAAGTGTGTCTGGCCACAAGGAGGCTACATCCTGAGGATCCTGCCAGTTCTGAGGCCGGCCCGGA
 CGGTGACCGTAATGATGGAAGTGAAGTGCACATCTGGGGACGCCATTCTATCCTGCATGTTCTCCATA
 TGTCTCCTGGTTCATCGACATCAACCACAGCATGCAGATCTTGACCACAGGTGAATACTCCGTCAAGATC
 TTTCCAGGAAGCAAGGTCAAAGGCGTGGAGTCCCAGACACACCCCAAGGCCTGATAGCGGAGGCCCGCA
 AGCTCAATGCCAGCATTGTACCTCCTTTGTAGAGTCCCTCTGGTCAGCAATGTCTCCCTGAGGGCCTC
 CAGCTGCGGTGGTGTGTTCCAGACCACCCTGCACCCGTTGTGACCACACCTCCCAAGGACACATGCAGC
 CCCGTGCTACTCATGTCCCTGATCCAGCCAAAGTGTGGCAATCAGGTGATGACTTGGCACTCAATAAAA
 AACACGTGCAGACTCTCCAGTGCACCATCACAGCCTGACTTTCTGGGACTCCAGTCCAGGCTGAAGA
 CACTGACGACCATCTTGTCTGAGTAGGCCTACTCCAGTCCGGCATGAAAGTGACAGCCCATGTGGTC
 AGCAATGAGGTGATCATCAGTTTCCCGTACGGCTCACCACCACTTCGGAAAAAGGTACAGTGCATCGACA
 TGACAGCCTCTCCTCCAGTGGGCTCTACCTCAGCCGCACTTCTCCAGGCATCCAACACCATCGA
 ACTAGGCCAGCAGGCTTCTGACAGGTGAGCGTGTCTCCATTGACCTCTGAGGTACAGTCCAGTAGAT
 AGCTGCCATCTGGACTTGGGGCCGAAGGGGACATGGTGGAACTCATCCAGAGCCGAACAGCCAAGGGCA
 GCTGTGTGACCTTGTGTCTCCAAGCCCTGAAGGTGACCCACGCTTACGTTCTCCTCCTCCGGTCTACAT
 GGTGCCACACCCACCGTGGCACCCCTCAGTTGCAACTTAGCTCTGCGCCCTAGCACCTTGTCCAGGAA
 GTCTACAAGACAGTCTCCATGCGCCTGAACATCGTCAGCCCTGACCTGTCTGGTAAAGGCCTTGTCTGC
 CCTCTGTACTGGGTATCACCTTTGGTGCCTTCTGATTGGGGCCCTGCTCACAGTGCACCTTGGTACAT
 CTATTCTCACACAGTGGCCCCAGCAAGCGGGAGCCCGTGGTGGCAGTGGCTGCCCGGCCCTCCTCTGAG
 AGCAGCAGTACCAACCACAGCATCGGGAGCACCCAGAGCACCCCTGCTCCACCAGCAGCATGGCGTAGT
 GCCCAGCCTGGAGCCTCGGGGAGCCCCAGCCAGCCCTTGCCCTGCAGGAGAGACCGAGCAGCCACAAG
 CTGGAAACCACCGCCATGAACTTGTCCCAGGAACCAACACCTCCCCTGCACCTGTTTATTCTCCAG
 TGGAGACTTACAGATTGGAATACCTTGGGATCTCCTCACCCCACTTACAGAACTGCCCAATCCAGGGGCT
 CTGGGATATGGCTGCCCGGGATTACAGAAAGACACGGCACTGCCGTGCACACCATGCTGCTTAGAAGCC
 TAAGCCTCTGCCTCAAGCTGGATCCTGTGCAGGGTGGCAGGCAAGAACTCAGACATGCCAGCCTAGC
 CCAGGGCGGCTGCATCTGGCCCCAGAAGCCTCCTCACCTGGACTGGCACAACTTCGGTTGGGGAACAG
 AAGCTGAGGGAGCTTAGATGGGGTGGGGATCCAAGCCCTCCAGCCACCCATTGGCCAGGCAGCAGG
 GGGGAGTGGCCAGCGGCTGTTGTGGCCAAGTCTGCATATTCACTAATAAATCAGACATGAAACCAG
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_007932
Insert Size: 1962 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:	BC029080 , AAH29080
RefSeq Size:	2824 bp
RefSeq ORF:	1962 bp
Locus ID:	13805
UniProt ID:	Q63961
Cytogenetics:	2 22.09 cM
Gene Summary:	<p>Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:10625534). Required for normal structure and integrity of adult vasculature (By similarity). Regulates the migration of vascular endothelial cells (PubMed:17540773). Required for normal extraembryonic angiogenesis and for embryonic heart development (PubMed:10625534). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (PubMed:28530658). May play a role in the binding of endothelial cells to integrins. Acts as TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors (PubMed:23300529). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). This is also known as L-endoglin.</p>