

Product datasheet for **MR209782**

Eng (NM_001146348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eng (NM_001146348) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eng
Synonyms:	A1528660; A1662476; CD105; Endo; S-endoglin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209782 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCGTGGCGTGCTCCCTCTGCCATTACCCTGCTGTTTGTATCTATAGCTTTGTACCCACAACAG
GTCTCGCAGAAAGAGTCGGCTGTGATCTACAGCCTGTGGACCCACAAGGGTGAGGTGACGTTTACCAC
CAGCCAGGTCTCCGAGGGCTGTGTAGCTCAGGCTGCCAATGCTGTGCGTGAAGTCCACGTTCTCTTCTG
GATTTTCCCGAATGCTGTACATCTGGAGCTGACTCTTCAGGCATCCAAGCAAAATGGCACGGAGACCC
AGGAGGTGTTCTGGTCTCGTTTGAACAAAAATGTCTTCGTGAAGTCCAGGCCCGGAAATCCCATT
GCATTGGCTACGACTCCAGCTGGTCACTTCCAAGGACAGCCAAGAGTCAACATCACAGTGTACCA
TCCCTTACCTCCAGGAACAGATCCTCGACTGGCAGCCACCAAGGGCGCCATCACCTCGATAGCAGCAC
TGGATGACCCCAAGCATCGTCTCCAGTTGGGCAAGACCCAAAGGCACCATCTTGTGCTTGCCAGA
AGCTCACAAAGGACATGGGCGCCACACTTGAATGGCAACCAGAGCCAGACCCAGTCCAAGCTGTGCG
TTGGAAGGTGTGCTGGCCACAAGGAGGCTACATCCTGAGGATCCTGCCAGTTCTGAGGCCGGGCCCC
GGACGGTGACCGTAATGATGGAAGTGAAGTGCACATCTGGGACGCCATTCTCATCTGCATGGTCTCC
ATATGTCTCCTGGTTCATCGACATCAACCACAGCATGCAGATCTTGACCACAGGTGAATACTCCGTCAAG
ATCTTTCCAGGAAGCAAGGTCAAAGGCTGGAGCTCCAGACACACCCCAAGGCCGATAGCGGAGGCC
GCAAGCTCAATGCCAGCATTGTACCTCCTTTGTAGAGCTCCCTCTGGTCAAGATGTCTCCCTGAGGGC
CTCCAGCTGCGGTGGTGTGTTCCAGACACCCCTGCACCCGTTGTGACCACACCTCCAAGGACACATGC
AGCCCCGTGCTACTCATGTCCCTGATCCAGCCAAAGTGTGGCAATCAGGTCATGACTCTGGCACTCAATA
AAAAACACGTGCAGACTCTCCAGTGCACCATCACAGGCTGACTTCTGGGACTCCAGTGCAGGCTGA
AGACACTGACGACCATCTTGCTGAGTAGCGCCTACTCCAGCTGCGGCATGAAAGTGACAGCCCATGTG
GTCAGCAATGAGGTGATCATCAGTTTCCCGTCAAGGCTCACCACCACTTCGAAAAAGGTACAGTGCATCG
ACATGGACAGCCTCTCCTTCCAGCTGGGCTCTACCTCAGCCGCACTTCTCCAGGCATCCAACACCAT
CGAACTAGGCCAGCAGGCTTCTGACAGGTGAGCGTGTCTCCATTGACCTCTGAGGTACAGTCCAGCTA
GATAGCTGCCATCTGGACTTGGGCCCCGAAGGGACATGGTGGAACTCATCCAGAGCCGAACAGCCAAGG
GCAGCTGTGTGACCTTGCTGTCTCAAGCCCTGAAGGTGACCCACGCTTCACTTCTCCTCCGGGTCTA
CATGGTGCCACACCCACCGCTGGCACCCTCAGTTGCAACTTAGCTCTGCGCCCTAGCACCTTGCCAG
GAAGTCTACAAGACAGTCTCCATGCGCCTGAACATCGTCAGCCCTGACCTGTCTGGTAAAGGCCTTGTC
TGCCCTCTGACTGGGTATCACCTTTGGTGCCTTCTGATTGGGGCCCTGCTCACAGCTGCACTCTGGTA
CATCTATTCTCACACAGTGGCCCCAGCAAGCGGGAGCCCGTGGTGGCAGTGGCTGCCCCGGCTCCTCT
GAGAGCAGCAGTACCAACCACAGCATCGGGAGCACCCAGAGCACCCCTGCTCCACCAGCAGCATGGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Reconstitution Method:

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_001146348.1](#), [NP_001139820.1](#)

RefSeq Size: 3430 bp

RefSeq ORF: 1959 bp

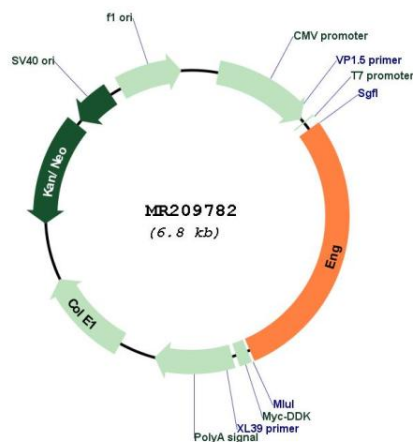
Locus ID: 13805

Cytogenetics: 2 22.09 cM

MW: 70 kDa

Gene Summary: 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]

Product images:



Circular map for MR209782