

Product datasheet for **MR222690**

Eng (NM_001146350) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eng (NM_001146350) 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:

>MR222690 representing NM_001146350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCGTGGCGTGCTCCCTCTGCCATTACCCTGCTGTTTGTATCTATAGCTTTGTACCCACAACAG
 GTCTCGCAGAAAGAGTCGGCTGTGATCTACAGCCTGTGGACCCACAAGGGTGAGGTGACGTTTACCAC
 CAGCCAGGTCTCCGAGGGCTGTGTAGCTCAGGCTGCCAATGCTGTGCGTGAAGTCCACGTTCTCTTCTG
 GATTTTCCCGAATGCTGTACATCTGGAGCTGACTCTTCAGGCATCCAAGCAAAATGGCACGGAGACCC
 AGGAGGTGTTCTGGTCTCGTTTGAACAAAAATGTCTTCGTGAAGTTCAGGCCCGGAAATCCCATT
 GCATTGGCTACGACTCCAGCTGGTCACTTCCAAGGACAGCCAAGAGTCAACATCACAGTGCTACCA
 TCCCTTACCTCCAGGAACAGATCCTCGACTGGCAGCCACCAAGGGCGCCATCACCTCGATAGCAGCAC
 TGGATGACCCCAAGCATCGTCTCCAGTTGGGCAAGACCCAAAGGCACCATCTTGTGCTTGCCAGA
 AGCTCACAAAGGACATGGGCGCCACACTTGAATGGCAACCAGAGCCAGACCCAGTCCAAGCTGTGCG
 TTGGAAGGTGTGTCTGGCCACAAGGAGGCTACATCCTGAGGATCCTGCCAGTTCTGAGGCCGGGCCCC
 GGACGGTGACCGTAATGATGGAAGTGAAGTGCACATCTGGGGACGCCATTCTCATCTGCATGGTCTCC
 ATATGTCTCCTGGTTCATCGACATCAACCACAGCATGCAGATCTTGACCACAGGTGAATACTCCGTCAAG
 ATCTTTCCAGGAAGCAAGGTCAAAGGCTGGAGCTCCAGACACACCCCAAGGCCTGATAGCGGAGGCC
 GCAAGCTCAATGCCAGCATTGTACCTCCTTTGTAGAGTCCCTCTGGTCAAGATGTCTCCCTGAGGGC
 CTCCAGCTGCGGTGGTGTGTTCCAGACCACCCCTGCACCCGTTGTGACCACACCTCCAAGGACACATGC
 AGCCCCGTGCTACTCATGTCCCTGATCCAGCAAAGTGTGGCAATCAGGTCATGACTCTGGCACTCAATA
 AAAAAACAGTGCAGACTCTCCAGTGCACCATCACAGGCTGACTTCTGGGACTCCAGTGCAGGCTGA
 AGACACTGACGACCATCTTGTCTGAGTAGCGCCTACTCCAGCTGCGGCATGAAAAGTACAGCCCATGTG
 GTCAGCAATGAGGTGATCATCAGTTTCCCGTCAAGGCTCACCACCACTTCGGAAAAAGGTACAGTGCATCG
 ACATGGACAGCCTCTCCTTCCAGCTGGGCTCTACCTCAGCCCGCACTTCTCCAGGCATCCAACACCAT
 CGAACTAGGCCAGCAGGCTTCTGACAGGTGAGCGTGTCTCCATTGACCTCTGAGGTACAGTCCAGCTA
 GATAGCTGCCATCTGGACTTGGGGCCGAAGGGGACATGGTGGAACTCATCCAGAGCCGAACAGCCAAGG
 GCAGCTGTGTGACCTTGTGTCTCAAGCCCTGAAGGTGACCCACGCTTACGCTTCTCCTCCGGGTCTA
 CATGGTGCCACACCCACCGCTGGCACCCTCAGTTGCAACTTAGCTCTGCGCCCTAGCACCTTGTCCCAG
 GAAGTCTACAAGACAGTCTCCATGCGCCTGAACATCGTCAGCCCTGACCTGTCTGGTAAAGGCCTTGTCC
 TGCCCTCTGACTGGGTATCACCTTTGGTGCCTTCTGATTGGGGCCCTGCTCACAGCTGCACTCTGGTA
 CATCTATTCTCACACACGTGAGTATCCCAAGCCTCCACCCATTCCCACAGCAAGCGCTCAGGGCCCGTC
 CACACCACCCCGGGGCACACCCAGTGGAGCCTC

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001146350.1](#), [NP_001139822.1](#)

RefSeq Size: 3572 bp

RefSeq ORF: 1926 bp

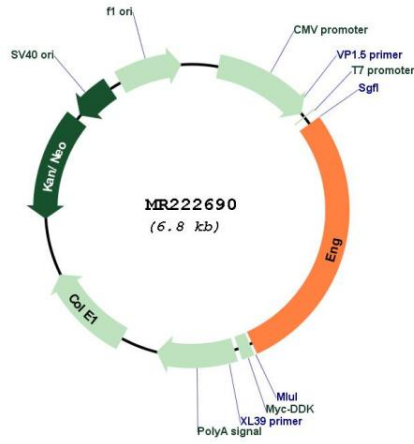
Locus ID: 13805

Cytogenetics: 2 22.09 cM

MW: 69.7 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 MR222690