

## Product datasheet for **MC222903**

### Reck (NM\_016678) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Reck (NM_016678) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Reck
Synonyms:	mRECK; St15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222903 representing NM\_016678  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAGCGTCCGGGCCTCCCCGCGCAGCGCGTCTACTTCTGCTGGCCGCGGGGGTTCGCGGAGG  
 TGACGGGGGGCCTGGCCCCGGGCAGCGCGGTGCTGTATGCTGTAATCATTCAAAAAGATAACCAAATGTG  
 CCGTGATGTATGTGAGCAGATTTTCTCCTCAAAAAGTGAATCCCGACTGAAACATCTGTTGCAGAGAGCC  
 CCAGATTATTGCCTGAAACAATGGTTGAAATTTGGAGTTGCATGAATTCGTCTTTGCCAGGGGATTTTA  
 AGAAGTCCGATGGTTGGTTGGCTTAGGCTGCTGTGAAGTGGCTATTGGCTTGGAGTGCCGACAGGCATG  
 CAAGCAGGCATCTTCGAAAAATGATATTTCAAAGTTTGCAGGAAAGAATATGAGAATGCTCTTTTCAGT  
 TGCATTAGCAGAAATGAAATGGGCTCGGTGTGCTGCAGTTACGCAGGCCATCACACCAACTGCCGAGAAT  
 TCTGTCAAGCCATTTTTCGAACAGACTCTTCTCCTGGGCCATCTCAGATCAAAGCAGTGGAAAAATTATG  
 TGCTCTATCAGTCCACAGTTGATACACTGTGTGAATAATTACACCCAGTCTTATCCAATGAGAAACCCA  
 ACTGATAGTTTTATATTGCTGTGACAGAGCTGAAGACCATGCTTGCCAAAACGCCTGCAAGAGAATTTCAA  
 TGTCTAAGAAAACAGAAATGGAGATTGTTGATGGTCTCATTGAGGGTTGTAAAGACCCAGCCCTTGCTCA  
 AGATCCTCTTTGGCAGTGTTTTCTCGAAAGCTCACAGTCGGTTACCCCTGGAGTCACTGTGCACCCTCCT  
 CCCTCAACTGGCCTCGACGGGGCCAAAATTGCACTGTTGCTCTAAAGCAAACACTTCAACCTGTAGGGAAAC  
 TGTGCACCAAACCTTATAGCATGAGCTGGGAAATACACAGAGTTGGCAAGAGTTTGACCGCATCTGTGA  
 GTATAATCCGGTGAAGTGTCCATGTGACGTGTCTGGCTGATGTCCGGGAGCCTTGCCAGTTGGGCTGT  
 ACAAACTGACTTACTGTACAACTTTAACAAACAGGCCAACAGAACTGTTCAAGAGCTGCACGGCTCAGT  
 CTGACCAGGGGGCCATGAGTGACATGAAGCTGTGGGAGAAGGGGAGCATCAAGATGCCCTCATCAGCAT  
 CCCTGTCTAGACATCAAGACCTGCCAGCCAGAGATGTGAAGGCCGTGGCCTGCTCCCTGCAGATCAAG  
 CCGTGCCATAGCAAATCCCGAGGCAAGTATTATCTGCAAATCAGATTGTGTAGAGATTCTCAAGAAATGTG  
 GAGACCAGAAATAAATCCCTGAAGAACACACAGCTGAAAGTATCTGTGAGTTTCTGTCCCCTGCAGATGA  
 CCTGGAGAGCTGTATCCCTCTGGACACGTACCTCAGGCCAAGTGTCTTAGGAAACATCATAGAAGAAGTG  
 ACTCACCCCTGTAACCCAAACCCCTGCCAGCCAACGAGCTCTGTGAAGTGAACCGAAGGGGTGTCCTGT  
 CTGCAGATCCCTGCCTCCATACTCCTGTGTTCAAGGCTGCAAATGGGAGAAGCTTCTGACTTCATCGT  
 CCGCCAGGGGACACTGATCCAGGTGCCCTCCTCTGCAGGGGAAGTTGGTTGCTACAAGATCTGTTCTGT  
 GGCAAAAGTGGCCTCTTGAAAAGTGTATGAAAATGCACTGTATCGACCTCCAGAAGTCTTGTATTGTGCG  
 GAGGAAAAAGAAAAGCCACGGAACATCCTTTACTATTGACTGCAATGTCTGTTCTGTTTTGCGGGTAA  
 TTTAGTGTGTTCCACCCGCTGTGCCTCAGTGAGCACAGTTTCAAGCAGCAGCCGCGCACCTTACAGGT  
 CTGCCCTGTAACCTGCGCAGATCAGTTTGTCCCAGTGTGTGCACAGAATGGACGCCTTACCCAGTGCCT  
 GCATCGCTCGCTGTGTGGGTCTCCAGGACCATCAGTTTGAAGTTGGACCTTGTATCTCCAAGAACCCCTG  
 TAATCCTAACCTCTGCCCAAAGCCAAAGATGTGTGCCAAAACCAAGTCTGCCTGACGACTTTTGTAT  
 AAATTTGGATGTAGCCAATATGAGTGTGTGCCAGACAGCTCACCTGTGACCAGGCCGAGATCCTGTGT  
 GTGACACAGATCATGAGCAGCAACCTCTGCACTCTGTACCAAAGAGGGAAAAGCCTGTCTTACAG  
 AGGCCCTTGCCAGCCTTCTGCAGAGCCAAGAGCCTGTCTGTGGGCACAATGGTGAGACATACAGCAT  
 GTGTGTGCTGCCTACTCAGATCGTGTGGCCGTGGATTACTACGGGCCCTGCCAGGCTGTCGCGCTCCTCT  
 CGGAATACAGTGTGTGGCTGAGTGTGCTGCTGTCAAGTGTCTTCCCTCTCAGCCATAGGCTGCAAACC  
 CATCATCCACCAGGGGCTTGTGTCCACTATGTGCTGGGATGTTACGGGTATTATTTGACAAAAGAAAA  
 CTGGACACTATTGCTAAGGTGACAAGCAAGAAGCCATAACCGTTGTGGAGATTCTCAGAAGGTCCGCA  
 TGCACGTGTCTGTGCCGAGTGTGACGTGTTGGATACTTGAGCATCGAGTCGGAATTTGTATCCTCAT  
 TATTCCTGTGGACCATTACCCAAAAGCTTTGCAGATTGAGGCCTGCAATAAGGAGGCAGAGAAAAATCGAG  
 TCCCTCATCAACTCCGACAGCCCCAGCTGGCGTCCCACGTCCCCTCTCGGCCCTCATATTTCCCAAG  
 TGCAGGTCTCAGCAGTCTCCCGTCATCTGCTGTTGTGGGAGGCCTCTCTTCCACTCCCTGCTCCTCCT  
 CCTCAGCCTGGGCCTCACCGTCACTTGTCTGGACTAGACCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_016678
<b>Insert Size:</b>	2916 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016678.2</a> , <a href="#">NP_057887.2</a>
<b>RefSeq Size:</b>	4450 bp
<b>RefSeq ORF:</b>	2916 bp
<b>Locus ID:</b>	53614
<b>UniProt ID:</b>	<a href="#">Q9Z0J1</a>
<b>Cytogenetics:</b>	4 B1
<b>Gene Summary:</b>	Functions together with ADGRA2 to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28803732). Plays a key role in Wnt7-specific responses: required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (PubMed:26658478, PubMed:28803732). Acts as a Wnt7-specific coactivator of canonical Wnt signaling by decoding Wnt ligands: acts by interacting specifically with the disordered linker region of Wnt7, thereby conferring ligand selectivity for Wnt7 (By similarity). ADGRA2 is then required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (By similarity). Also acts as a serine protease inhibitor: negatively regulates matrix metalloproteinase-9 (MMP9) by suppressing MMP9 secretion and by direct inhibition of its enzymatic activity (PubMed:11747814). Also inhibits metalloproteinase activity of MMP2 and MMP14 (MT1-MMP) (PubMed:11747814). [UniProtKB/Swiss-Prot Function]