

Product datasheet for **SC312450**

CD147 (BSG) (NM_198591) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD147 (BSG) (NM_198591) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD147
Synonyms:	5F7; CD147; EMMPRIN; EMPRIN; HAb18G; OK; SLC7A11; TCSF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198591 edited
 TTCGGCTTAGTCTGCGGTCTCTTGCAATTGCGACTCCGAGTTAACTTCCAACACACACT
 TTCAACCTCCAAGAGACGCCCCACCTGTGTGCGCCCAATAGCGACTTTTCTCACCGTGG
 TCGCCGCGGAACCTCAAGGGTCTTCTACCCGCGTTGCTGAGAGTCTGGGTTTACGCGT
 CACCTCGGGCGGACCCGATCCTCCGCTCTGAGGCCCAATGAAGCAGTCGGACGC
 GTCTCCCCAAGAAAGGGTGGACTCCGACGACAGTGGGGAGAGTACTCCTGCGTCTTCT
 CCCCAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCCTCCAGAGTGAAGGCTGT
 GAAGTCGTCAGAACACATCAACGAGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTC
 CGTGCCACCTGTCACTGACTGGGCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCT
 CATGAACGGCTCCGAGAGCAGGTTCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACA
 CATTGAGAACCTGAACATGGAGGCCACCCGGCCAGTACCGGTGCAACGGCACCAGCTC
 CAAGGGCTCCGACCAGGCCATCATCAGCTCCGCGTGCGCAGCCACCTGGCCGCCCTCTG
 GCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGTGCTGGTACCATCATCTTCATCTACGA
 GAAGCGCCGAAGCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAA
 GAGCAGCGGGCAGCACCAGAATGACAAAGCAAGAACGTCGCCAGAGGAACTCTTCTCTG
 AGGCAGGTGGCCGAGGACGCTCCCTGCTCCACGTCCTGCGCCGCCGCGGAGTCCACTCC
 CAGTGCTTGAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATTCCCA
 TCATACACTTCTTCTTTTTAAAAAGTTGGGTTTTCTCCATTGAGATTCTGTTCTT
 AGGTTTTTTTTCTTCTGAAGTGTTCACGAGAGCCCGGAGTGTGCTGCCCCTGCGGCCCG
 TCTGTGGCTTTCAGCCTCTGGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCA
 CTGGCCGAGTCAGTGCCAGGTCCTTGCCTTTGTGAAAAGTACAGGTACACAGAGGGG
 CCCCGTCTCCTGCCTGTTTGAAGCCAATGCTGTCTGGTTGCGCCATTTTTGTGCTTTTAT
 GTTTAATTTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACC
 TCTTGGCCACAGAGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTC
 ACTCCCAAGCCCTCCTTGTCTGTGCATCCGGGGCAGCTCTGGAGGGGTTTGTGTTGG
 GAACTGGCGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTCCCAAGCTCACCCCTGGAG
 GACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCTCCCAACCCAGCCCA
 CAATAAGATCGCCCCACCTCCAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_198591 unedited
 NAAGTTCACATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCTTAGT
 CTGCGGTCTCTTGCATTGCGACTCCGAGTTAACTTCCAACACACACTTTCAACCTCCA
 AGAGACGCCCCACCTGTGTGCGCCCAATAGCGACTTTTCTCACCGTGGTCGCGCGGAA
 CTTCAAGGGTCTTCTACCCGCGTTGCTGAGAGTCTGGGTTTACGCGTCACCTCGGGCG
 GGACCCGATCCTCCGCTCCTGAGGCCCAATGAAGCAGTCGGACGCGTCTCCCCAAG
 AAAGGGTGGACTCCGACGACAGTGGGGAGAGTACTCCTGCGTCTTCTCCCGAGCCCA
 TGGGCACGGCCAACATCCAGCTCCACGGGCCCTCCAGAGTGAAGGCTGTGAAGTCGTGAG
 AACACATCAACGAGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCGGTGCCACCTG
 TCACTGACTGGGCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCT
 CCGAGAGCAGGTTCTTCGTGAGTTCCTCGCAGGGCCGGTCAGAGCTACACATTGAGAACC
 TGAACATGGAGGCCGACCCGGCCAGTACCGGTGCAACGGCACCAGCTCCAAGGGCTCCG
 ACCAGGCCATCATCAGCTCCGCGTGCGCAGCCACCTGGCCGCCCTTGGCCCTTCTGG
 GCATCGTGGCTGANGTGTGGTGTGTTGCTGGTACCATCATCTTCATCTACGAGAAGCGCCGA
 AGCCCCGAGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGC
 AGCACCAGAATGGACAAGCAAGAACGTCGCCAGAGNAACTCTTNCCTGAGCAGGTGGC
 CCGAGGACGCA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_198591 unedited NAGCACTGGGNGNAGGGGTACAGGGNATGCCACCCGGGATCTGTTCAGGAAACAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGGTGGGGGCGATC TTTATTGTGGCGGTGGGTGGGAAGGGGGTTCCACGTGAGCCCTGGTGTATAGAGAGC CGGCCGTCTCCAGGGGTGAGCTGGGGAGGCTTCTGCGTTCTGGAGTCCCGCGATGGC GCCAGTCCCCAGCAAACCCCTCCAGAGCTGCCCCGGATGCACAGACAAGGAGGGGGC TTGGGAGTGACTTGAGGCTGTGACGGGGTCGCCCTCGGTGTGGGCAAGTGAGTCTCTGT GGCCAAGAGGTCAGAGTCGTCCCTGAGGCTGAGTCGAACACAGACCCGTGGCCCTCATAA AATTAAACATAAAAGCACAAAAATGGCGCAACCAGACAGCATTGGCTTCAAACAGGCAGG ACACGGGGCCCTCGTGTGACCTGTGACTTTCCACAAAGGGCAAGGACCTGGCACTGACT CCGGCCAGTGGAGAAGGCTGTGCCGCCACCCGGCCATGACTCAAACCCAGAGGCTGAAA GCCACAGACGGGGCCGAGGGCAGCAGCTCCCGGGCTCTCGTAAACACTTCAGAAAGAA AAAAACCTNAAGAACAGAATCTGAATGGAGAAAACCACTTTTTTAAAAAAGAAGGAA TGTATGATGGGAATCTACGGGTGGTTTTCTTAAGAAGTAAAACCTGGAAACCTGCA AGCACCTGGAGGGACTCCCGCCGGCGGCAAACTTGGACCAAGGACCGTCCCCGGCCA CCTGCCCAAAGAAAAATTCCTCTGGCGGACCTCCTGCCTTTGACATTG
Restriction Sites:	NotI-NotI
ACCN:	NM_198591
Insert Size:	1600 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_198591.1, NP_940993.1</u>
RefSeq Size:	1609 bp
RefSeq ORF:	618 bp
Locus ID:	682
UniProt ID:	<u>P35613</u>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Gene Summary:

The protein encoded by this gene, basigin, is a plasma membrane protein that is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. Basigin is also a member of the immunoglobulin superfamily, ubiquitously expressed in various tissues. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2020]

Transcript Variant: This variant (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (4) has a shorter and distinct N-terminus compared to isoform 1.