

## Product datasheet for **MR220800**

### Igsf5 (NM\_001177886) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Igsf5 (NM\_001177886) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Igsf5  
**Synonyms:** 2010003D20Rik; Jam4; JCAM  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR220800 representing NM\_001177886  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGGGCAGCTGGAGAGATGTCCTGGCTGTGCTGGTCATCCTGGCTCAGCTGACAGCTTCCGGATCCA  
GTTATCAGATCATAGAAGTCTCAGAATGTAACAGTCTAAAGGACTCAGAGGCTCACTCAACTGCAC  
CGTGACTCAGGGCTGGAAGCTTCTCATGTGGACTCTTAACCAAAATGGTGGTGTGAGTCTCACCACCCAA  
GGACCCATCATCACAACAACCGCTTCACTATGCCAGTTACAACAGCACTGACAGCTTCATCTCGGAGT  
TGATCATCCATGATGTGCAGCCAGTGACTCGGGATCCGTGCAATGCAGCCTGCAGAACAGCCATGGGTT  
TGGATCTGCCTTCTCAGTGAAGTCATGGGGACCCTGAACATTCCTAGCAACAACCTTATAGTCACT  
GAGGGTGAACCCGTGAATGTGACTTGCTATGCCGTGGGCTGGACCTCACTCCCGGATATTTCTGGGAGC  
TTGAGGTTCCCGTAAGCCATTCGAGTTACAATTCCTTTCTGGAGCCGGGCAACTTATGAGGGTCTTGAG  
TGTCTGGACCTCACACCACTGGGCAACGGGACCTTGACTGTGTGGCAGAGCTGAAGGACTGCAGGCC  
AGCAAGTCCTTAAGTGTCAACCTGACTGTGGTTCAGCTCCACCTGACAGTATTGGAGAGGAAGGCCCA  
CACTGCCGACCTGGGCCATCATCCTGCTGGCAGTGGCCTTTTCTGCTTTGATCCTGATCATTGTTT  
GATTATAATATTCTGTTGCTGTTGTGCCTCCAGGAGAGAAAAGGAAGAATCTACTTATCAAAATGAAATA  
AGGAAATCTGCAACATGAGGACAAACAAGCAGATCCGGAGACAAAGTAAAAAGTGGAAAGGAAACT  
ACGGGTACAGTTCGGATGAGGCAAGGCTGCACAGACTGCATCTCCTCCTAAATCTGCTGAAGTCAG  
CCTTCCAGAAAAACGAGCAGTAGCCTTCTTATCAGAGGTCGACTCATGGAATGGTGGATGCTGAGAGG  
TCCAAGTTTCAACAATCTGAAAAACCAGGAGGGAGTTGATGACATGGCTGCAGCCTGTGGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220800 representing NM\_001177886  
 Red=Cloning site Green=Tags(s)

MEGSWRDVLAVLVILAQLTASGSSYQIIIEGPQNVTVLKDSEAHFNCTVTHGWKLLMWTLNQMVVLSTTQ  
 GPIITNNRFTYASYNSTDSFISELIIHDVQPSDSGVSQCSLQNSHGFGSAFLSVQVMGTLNIPSNLIIVT  
 EGEPNCVTCYAVGWTSPLDISWELEVVPVSHSSYNSFLEPGNFMRVLSVLDLTPLGNGTLTCVAELKDLQA  
 SKSLTVNLTVVQPPPD SIGEEGPALPTWAIILLAVAFSLLLILIIIVLIIIFCCCCARREKEESTYQNEI  
 RKSANMRTNKADPETKLSGKENYGYSSDEAKAAQTASLPPKSAEYSLPEKRSSSLPYQRSTHGMVDAER  
 SKVHNNLKNQEGVDDMAAACGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

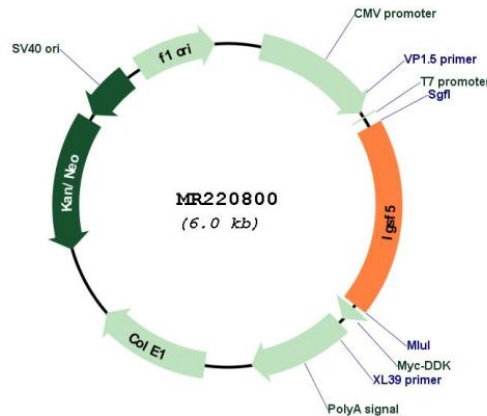
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001177886

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001177886.1</a> , <a href="#">NP_001171357.1</a>
<b>RefSeq Size:</b>	1508 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	72058
<b>Cytogenetics:</b>	16 C4
<b>MW:</b>	40.9 kDa
<b>Gene Summary:</b>	<p>Provides, together with MAGI1, an adhesion machinery at tight junctions, which may regulate the permeability of kidney glomerulus and small intestinal epithelial cells. Mediates calcium-independent homophilic cell adhesion. In testis, it may function as a cell adhesion molecule rather than a tight-junction protein. It may participate in the adhesion between spermatogonia-spermatogonia, spermatogonia-Sertoli cells, and Sertoli cells-Sertoli cells. [UniProtKB/Swiss-Prot Function]</p>