

## Product datasheet for MR203588

### Igsf5 (NM\_028078) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igsf5 (NM_028078) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igsf5
Synonyms:	2010003D20Rik; Jam4; JCAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203588 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGGCAGCTGGAGAGATGTCCTGGCTGTGCTGGTCATCCTGGCTCAGCTGACAGCTTCCGGATCCA  
GTTATCAGATCATAGAAGGTCCTCAGAATGTAACAGTCTAAAGGACTCAGAGGCTCACTTCAACTGCAC  
CGTGACTCAGGCTGGAAGCTTCTCATGTGGACTCTTAACCAAATGGTGGTGCTGAGTCTCACCCCAA  
GGACCCATCATCACAACAACCGCTTACCTATGCCAGTTACAACAGCACTGACAGCTTCATCTCGGAGT  
TGATCATCCATGATGTGCAGCCAGTGACTCGGGATCCGTGCAATGCAGCCTGCAGAACAGCCATGGGTT  
TGGATCTGCCTTCTCAGTGCAAGACAGTATTGGAGAGGAAGGCCAGCACTGCCGACCTGGGCCATC  
ATCCTGTGTCAGTGGCCTTTCTTGTCTTGTATCCTGATCATTGTTTTGATTATAATATTCTGTTGCT  
GTTGTGCCTCCAGGAGAGAAAAGGAAGAATCTACTTATCAAAATGAAATAAGGAAATCTGCAAAACATGAG  
GACAAACAAGCAGATCCGGAGACAAAGTTAAAAAGTGGAAAGGAAAACACGGGTACAGTTCGGATGAG  
GCAAAGGCTGCACAGACTGCATCTCCTCCTAAATCTGCTGAAGTCAGCCTTCCAGAAAAACGCAGCA  
GTAGCCTTCTTATCAGGAACCAATAACATCAGCCCGGTCCAGCAACTCATCCACGGGTTTCTTTGA  
CATCGCCAGTCTCAGAAGGTCAGAAATGTGACTTTAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203588 protein sequence  
 Red=Cloning site Green=Tags(s)

MEGSWRDVLAVLVILAQLTASGSSYQIIEGPQNVTVLKDSEAHFNCTVTHGWKLLMWTLNQMVLSTTQ  
 GPIITNNRFTYASYNSTDSFISELIIHDVQPSDSGVSQCSLQNSHGFGSAFLSVQDSIGEEGPALPTWAI  
 ILLAVAFSLLLILIIIVLIIIFCCCCASRREKEESTYQNEIRKSANMRTNKADPETKLKSGKENYGYSSDE  
 AKAAQTASLPPKSAEVSLEPKRSSSLPYQELNKHQPGPATHPRVSFDIASPQKVRNVTLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_028078

**ORF Size:** 813 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_028078.3](#), [NP\\_082354.1](#)

**RefSeq Size:** 1600 bp

**RefSeq ORF:** 813 bp

**Locus ID:** 72058

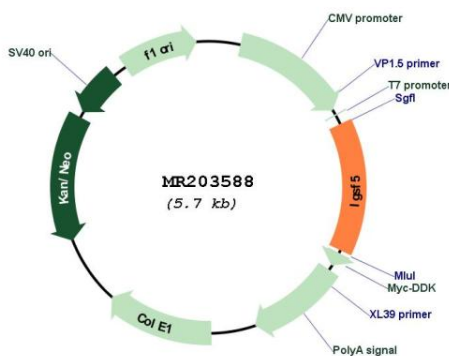
**UniProt ID:** [Q7TSN7](#)

**Cytogenetics:** 16 C4

**MW:** 29.6 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR203588