

Product datasheet for **RR210338**

Igsf5 (NM_001006990) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Igsf5 (NM_001006990) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Igsf5
Synonyms: Jam4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210338 representing NM_001006990
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGGCAGCTGGAGAGATGTCCTGGCTGTGCTGGTCATCCTGGCTCAGTTGACAGTTTCCGGATCCA
GTTATCAGATCATAGAAGTCTCGGAATGTAACAGCCCTAAAGGGCTCGGAGGCTCGTCTCAACTGCAC
TGTGACTCATGGCTGGAAGCTTATCATGTGGCTCTCAACGGTATCGTGGAGCTGAGTCTCACCTCCCAG
AAACCCATCATACCAGCAACCGCTTCACTCTGCCAGCTACAACAGTACTGACAGCTTCATCTCTGAGA
TGATCATCCACAATGTACAGCTCAACGACTCGGGGCCGTGCAATGTAGCCTGCAGAACGCAATGTGTT
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CGCTGCCAACCTGGGCCATCATCTCTGGCAGTGGCCTTTTCTTACTCTTGATCCTGATCATTGCTCT
GATTATAATATTCTGTTGCTGTTGTCTCCAGGAGAGAAAAGGAAGAATCTACTTATCAAATGAAATA
AGGAAATCTGCAATGTGAGGACAGGCAAAGCAGATCCCGAGACATGGTTAAAAAGTGGGAAGGAAACT
ATGGGTACAAATCGGATGAAGCAAGGGCTGCACAAATTGCTTCTCTCCCTCTAAATCTGGTGAAGTTAG
CCTTCCAGAACACGCAGTAGCCTTCTCAACAGGAACCTGATAAACATCGGCCAGCCAGCCAGTACTCAT
CCACGAGTTTCTTTGACATCGCCAGTCTCAGAAGATCAGAAATGTGACTATAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >RR210338 representing NM_001006990
 Red=Cloning site Green=Tags(s)

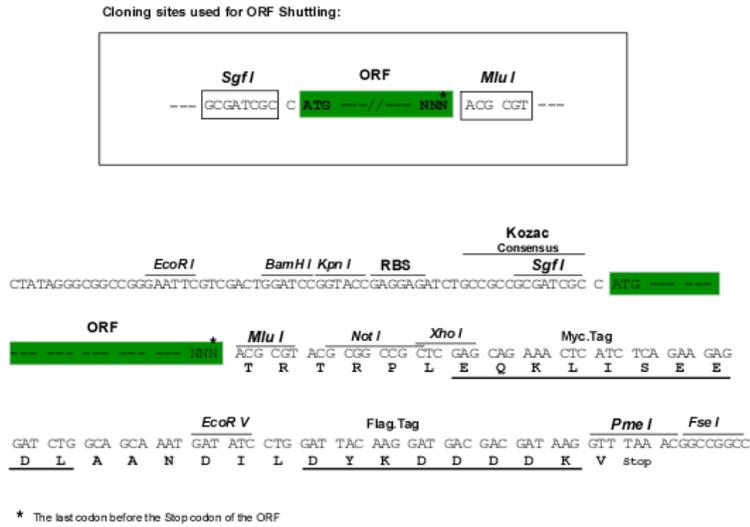
MEGSWRDVLAVLVILAQLTVSGSSYQIIEGPRNVTALKGSEARFNCTVTHGWKLIMWALNGIVELSLTSQ
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 EGEPNCNVTYAVGWTPLPNISWELEVVPVSHSSYSFLEPGNSLRVLSVLDLTPLGNGTLTCAEMKDLQA
 SESLTVNLTVVQPPPD SIGGEGQALPTWAIILLAVAFSLLLILIIALIIIFCCCCVSRREKEESTYQNEI
 RKSANVRTGKADPETWLGSGKENYGYKSDEARAAQIASLPPKSGEVSLEPQRSSLPQQELDKHRPSPVTH
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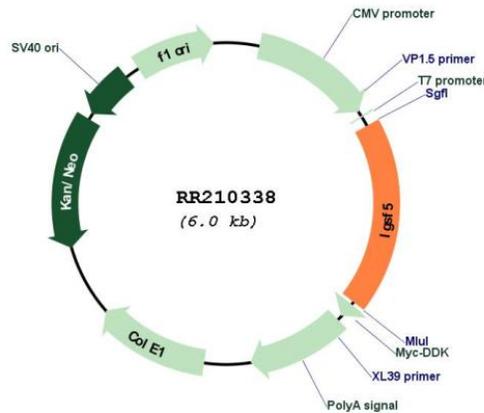
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001006990

ORF Size:	1107 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:	<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:	NM_001006990.2 , NP_001006991.1
RefSeq Size:	2164 bp
RefSeq ORF:	1110 bp
Locus ID:	304000
UniProt ID:	Q5VJ70
Cytogenetics:	11q11
MW:	40.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]