

## Product datasheet for **MG220800**

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

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Igsf5 (NM_001177886) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP   |
| Symbol:                   | Igsf5  |
| Synonyms:                 | 2010003D20Rik; Jam4; JCAM  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG220800 representing NM_001177886<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGGCAGCTGGAGAGATGTCCTGGCTGTGCTGGTCATCCTGGCTCAGCTGACAGCTCCGGATCCA  
GTTATCAGATCATAGAAGTCTCAGAATGTAACAGTCTAAAGGACTCAGAGGCTCACTCAACTGCAC  
CGTGACTCAGGGCTGGAAGCTTCTCATGTGGACTTTAACCAAATGGTGGTGCTGAGTCTCACCACCCAA  
GGACCCATCATCACAACAACCGCTTACCTATGCCAGTTACAACAGCACTGACAGCTTCATCTCGGAGT  
TGATCATCCATGATGTGCAGCCAGTGACTCGGGATCCGTGCAATGCAGCCTGCAGAACAGCCATGGGTT  
TGGATCTGCCTTCTCAGTGCAAGTCATGGGGACCCTGAACATTCCTAGCAACAACCTTATAGTCACT  
GAGGGTGAACCTGTAATGTGACTTGCTATGCCGTGGGCTGGACCTCACTCCCGGATATTTCTGGGAGC  
TTGAGGTTCCCGTAAGCCATTGAGTTACAATTCCTTTCTGGAGCCGGGCAACTTATGAGGGTCTTGAG  
TGTCTGGACCTCACACCACTGGGCAACGGGACCTTGACTTGTGTGGCAGAGCTGAAGGACTTGCAGGCC  
AGCAAGTCCTTAAGTGTCAACCTGACTGTGTTTCAGCCTCACCTGACAGTATTGGAGAGGAAGGCCAG  
CACTGCCGACCTGGGCCATCATCTGCTGGCAGTGGCCTTTCTTGTCTTGTATCTGATCATTGTTTT  
GATTATAATATTCTGTTGCTGTTGTGCTCCAGGAGAGAAAAGGAAGAATCTACTTATCAAAATGAAATA  
AGGAAATCTGCAACATGAGGACAAACAAGCAGATCCGGAGACAAAGTTAAAAAGTGGAAAGGAAAAT  
ACGGGTACAGTTCGGATGAGGCAAGGCTGCACAGACTGCATCTCCCTCCTAAATCTGCTGAAGTCAG  
CCTTCCAGAAAAACGCAGCAGTAGCCTTCTTATCAGAGGTCGACTCATGGAATGGTGGATGCTGAGAGG  
TCCAAGTTTACAACAATCTGAAAAACCAGGAGGGAGTTGATGACATGGCTGCAGCCTGTGGTGCT

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220800 representing NM\_001177886  
Red=Cloning site Green=Tags(s)

```
MEGSRDVLAVLVILAQLTASGSSYQIIEGPQNVTVLKDSEAHFNCTVTHGWKLLMWTLNQMVVLSLTQ
GPIITNNRFTYASYNSTDSFISELIIHDVQPSDSGVSQCSLQNSHGFGSAFLSVQVMGTLNIPSNLIIVT
EGEPCNVTCTYAVGWTSLPDISWELEVVPVSHSSYNSFLEPGNFMRVLSVLDLTPLGNGTLTCVAELKDLQA
SKSLTVNLTVVQPPPDSIGEEGPALPTWAIILLAVAFSLLLILIIIVLIIIFCCCCASRREKEESTYQNEI
RKSANMRTNKADPETKLGSGKENYGYSSDEAKAAQTASLPPKSAEYVSLPEKRSSSLPYQRSTHGMVDAER
SKVHNLLKNQEGVDDMAAACGA
```

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1823\\_d07.zip](https://cdn.origene.com/chromatograms/ja1823_d07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001177886

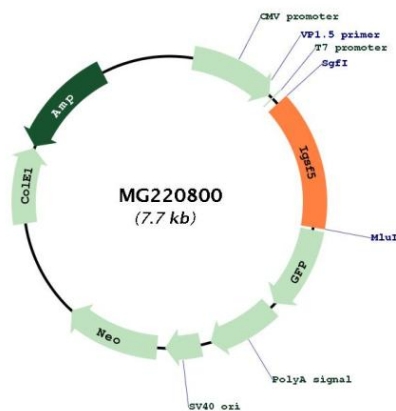
**ORF Size:** 1116 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001177886.1](#), [NP\\_001171357.1](#)
- RefSeq Size:** 1508 bp
- RefSeq ORF:** 1119 bp
- Locus ID:** 72058
- Cytogenetics:** 16 C4
- 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 MG220800