

## Product datasheet for **MR209404**

### Igsf8 (NM\_080419) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igsf8 (NM_080419) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Igsf8
Synonyms:	ESTM34; EWI-2; KCT-4; PGRL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209404 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCGTCCCTAGCCCCACGCCGTGAGTTTCGCTCCTGTGCTGCTGCTAATACTTGAACCAGGTGCT  
 ACGCCCGCAGGTGCATGTCCCCAGGGGACCTCTTACCAGGTGGCTGGACCGCTGTCTATCTCCTG  
 CAACGTGAGTGACTATGAGGGCCCTGCCAGCAAGACTTCGAGTGGTTCATGTACAGACCAGAGGCCCA  
 GCTACGTCCTGGCATTGTGAGCAGCAAGGATAGCCAGTTCTCCTATGTGTCTTTGGGCTCGTGTGG  
 CATCTGGTGACCTGCAGGTGCAGCGCCTGAAGGGAGATTTCGGTGGTGTCAAGATTGCTCGCCTGCAGGC  
 CCAGGACTCTGGCTTTTATGAGTGTACACCCCTCCACAGATACGCAGTACCTGGGCAACTACAGTGCC  
 AAGGTGGAGCTGAGAGTCTTCCAGATGAGCTGCAGGTATCTGCTGCCCTCCAGGGCCCCGAGGGCGCC  
 AGGCTGCCACCTCCCCCTCACGCCTCACAGTGCACGAGGGGCAGGAGCTTGGCTGGGCTGCCTGGCTCA  
 GACCAAAACAAAGAAACACACACCTGTCCGTTGCTCTTTGGGAGAGCCATTCCGGAGGCCCGCAGTGGGG  
 CGAGCCACTCTACAGGAAGTAGTGGGACTGCACCTCCGACATGGCGGTGGAGGCTGGAGCGCCCTACGCTG  
 AGAGGCTAGCTTCTGGGAGCTTCGGCTGAGCAAGGAAGGGACTGATCCGTAACCGAATGGTGGTGGGGG  
 TGCCAGGCTGGAGACTCGGGCACCTACCACTGTACGGCCGCTGAGTGGATTACAGGATCCTGACGGCTCC  
 TGGGTCCAGGTGCGAGAGAAGAGGGCAGTCTGGCTCATGTTGATGTGCAGACTGTCCAGCCAGCTGG  
 CGGTGACCGTGGGACCTGGTGAACGTCCGATTGGCCAGGCGAACCTTAGAACTGCTGTGCAATGTGTC  
 CGGTGCACTGCCCCACAGGCCGTGATGCTGCGTACTCTGTGGGCTGGGAGATGGCCCTGCAGGGGCT  
 CCTGGACCCGGCCGCTGGTGGCCAGCTGGACACGGAAGGTATAGGCAGCCTGGGCCCTGGCTATGAGG  
 ACCGGCACATTGCCATGGAGAAAGTAGCATCCAGAACCTACCGACTGCGGCTGGAGGCTGCCAGGCCCGC  
 TGATGCAGGCACCTACCGCTGCCTCGCCAAAGCCTATGTTTCGAGGGTCTGGGACCCGGCTTCGTGAAGCG  
 GCCAGTGTCTGTTCCCGCCTCTCCCTGTGCATGTGAGAGAAGAAGGCGTGGTGTAGAGGCTGTGGCGT  
 GGCTAGCAGGGGGCACTGTGTACCGGGGAGAAACGGCCTCCCTGCTATGCAACATATCTGTGCGGGGCGG  
 CCCCCAGGGCTGCGACTAGCAGCCAGCTGGTGGTGGAGAGGCCAGAGGAGGGCGAGCTGAGCACTGGC  
 CCTGCTCAGCTTGTGGTGGAGTGGGTGAGGACGGTGTGGCAGAGCTGGGAGTCCGGCCTGGAGGGGGTC  
 CTGTCAGTGTGGAGCTGGTGGGACCCAGAAGTCATCGGCTAAGACTGCACGGCTTGGGGCTGAGGATGA  
 AGGCATATACCACTGTGCCCCAAGTGCCTGGGTGCAGCATGCGGACTACAGCTGGTACCAGGCAGGCAGT  
 GCGCGCTCCGGGCTGTACAGTCTACCCCTACACGCATGCTGTGGATACCCTATTTGTGCCCTGTTGG  
 TGGGTACAGGAGTCGCCCTAGTTACCGGCCAGCGTCTGGCTACCATCACCTGCTGCTTATGAAGAG  
 GATGCGGAAGCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209404 protein sequence  
 Red=Cloning site Green=Tags(s)

MGVPSPTPLSSLLLLLLILGTRCYARQVHVPRGPLYRVAGTAVSISCNVSDYEGPAQQDFEFMYRPEAP  
 ATSLGIVSTKDSQFSYAVFGPRVASGDLVQQLKGDVSVLKIARLQAQDSGFYECYTPSTDTQYLGNYSA  
 KVELRVLPELQVSAAPPGRGRQAATSPSRLTVHEGQELALGCLAQTKKKHHTLSVSVFGRAIPEAPVG  
 RATLQEVVGLHSDMAVEAGAPYAERLASGELRLSKEGTDYRMYVGGVGAQAGDSGTGHTAAEWIQDPDGS  
 WVQVAEKRAVLAVHDVQTLSSQLAVTVGPGERRIGPGEPELELNCNVSALPPPGRHAAYSVWEMAPAGA  
 PGPGRLLVAQLDTEGIGSLGPGYEDRHIAEKVASRTYRLRLEAARPADAGTYRCLAKAYVRGSGTRLREA  
 ASARSRPLPVHVREEGVLEAVAWLAGGTVYRGETASLLCNISVRGGPPGLRLAASWVVERPEEGELSTG  
 PAQLVGGVQDGVAVELGVRPGGVPVSVELVGRSHRLRLHGLGPEDEGIYHCAPSAAWQHADYSWYQAGS  
 ARSGPVTVYPYTHAVDTLFLVPLLVTGVALVTGASVLAITCCFMKMRMRK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_080419

ORF Size: 1836 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\\_080419.2](#)

RefSeq Size: 2256 bp

RefSeq ORF: 1836 bp

Locus ID: 140559

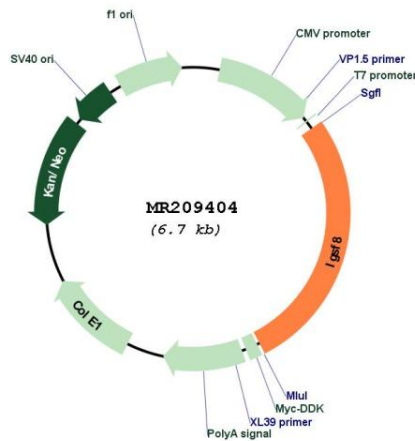
UniProt ID: [Q8R366](#)

Cytogenetics: 1 79.59 cM

MW: 65 kDa

Gene Summary: May play a key role in diverse functions ascribed to CD81 and CD9 such as oocytes fertilization or hepatitis C virus function. May regulate proliferation and differentiation of keratinocytes. May be a negative regulator of cell motility: suppresses T-cell mobility coordinately with CD81, associates with CD82 to suppress prostate cancer cell migration, regulates epidermoid cell reaggregation and motility on laminin-5 with CD9 and CD81 as key linkers. May also play a role on integrin-dependent morphology and motility functions. May participate in the regulation of neurite outgrowth and maintenance of the neural network in the adult brain.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209404