

## Product datasheet for **MG224043**

### Igsf1 (NM\_177591) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Igsf1 (NM_177591) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Igsf1
Synonyms:	5330413N23; 5530402E03; AI747649; InhBP/p120; mKIAA0364
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224043 representing NM_177591 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCTTCGGACCTTCACTCTTTTGCTCCTTTGCATTTGGCTCAATCCGGGTATGACTTCACTGGCAG  
TGGAGTCTCAACCAGAGCTATGGATAGAGTCCAACACCCAGGCCCTTGGGAGAATCACACTCTG  
GTGCAAAAGCCCCTCTCGGGTATCCAGCAAGTTCTGCTTCTGAAGGATAACTCACAGATGACCTGGATT  
CGTCTCCTTACAAGACATTCCAAGTTTCACTTTCATAGGTGCCCTTACTGAGTCCAATACAGGCTTT  
ATCGATGCTGCTACTGGAAGGAGAAAGGCTGGTCAAACCCAGTAAAATTCTAGAGCTAGAAGCACCAGG  
CCAACCTCCCTAAACCCATCTTCTGGATCCAGGCAGAGACCCCTTCTTCTGGATGCAATGTTAACATC  
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ACCAAGTCCCACTGGACAATGGCCATCTTCTCCATTGATAACTTGGCACCCGAGAATGAAGGGTTTA  
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TCGATTGAGGCACACCCTAACACCTGGTCACATCGCAGTAAGCCTCTGAAGTTGGTGGGACCAGCAGGC



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TTCTCACCTGGAATTCATTCTGAATGAAGCTGTCAGGGTGCCTTAACCATGCAGCTTGCTTCCTTGC  
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TAGTCCTTGAAGAGTGAACCAAGAAGGAGAACCAGGCACTACCACCAATTCTCCTTCATCTGCCTCGCA  
AGAAGTCTCAGTGGAACTGACAGTTCCAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224043 representing NM\_177591  
 Red=Cloning site Green=Tags(s)

MMLRTFTLLLLCIWLNPGMTSLAVESQPELWIESNYPQAPWENITLWCKSPSRVSSKFLLLKDNSQMTWI  
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 VAGLYPKPTLTAHPGPILAPGESLSLRQCQGPYGMTFALMRELDLKKSFYHKKPIKNEAYFYFDLKIQD  
 TGHYLCFYDDGSYRGSLLSDILKIWVTDTFPKTWLLVQPSPIQMGQNVSLRCGGLMDGVLALYKKGEE  
 KPLQFLDASSNTGNSSFFLKNVTYRDAGIYSCHYYLTWKTSTIKMATYNTVELMVVAWPSSVFKVGKTITL  
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 TEEIEIVMPTPKPELWAEITNFPLAPWKNLTLWCRSPSGSTKEFVLLKDGTDGWIATRPASEQVRAAFPLGA  
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 QEPVQQLGAVGREAFFTIQRMEDKDEGNYSRTHTEMQPFKWESEPLELVIKEMYKPKPFKKTWASPVV  
 TPGSRVTFNCSTSHHMSFILYKDGNEIASDDLAWGNPGGSTAHFLIISVGIQGGNYSCRYDFSIWSE  
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 HTVGAQDFGNYSVYYETTMSNRGSSLSTPLMIWVTDTFPRPWLAEPSVVTMGQNVTLWCQGPVRGVG  
 YILHKEGEATSMQLWGSTNEGAFPIINISGASIGRYSYCCYHPDWMSPIKIQPSNTELEIVTGLLPKPSL  
 LVQPGPMVAPGENVTLQCQGELPDSTFVLLKEGTRQPLEQQRPSGYRADFWMPVVRDQDSGVYSCVYYLD  
 SAPLVAASNHSNLEIWVTDKPPKPSLSAWPSTIFKLGKIDITLQCRGPLPGEFVLEHDGEEAPQFSEDG  
 DFVIDNLEGGKIGNYSYRLQAYPDIWSEPSDTELELVGAAGPVAQECTVGNIVRSTLIVVVVVALGIVL  
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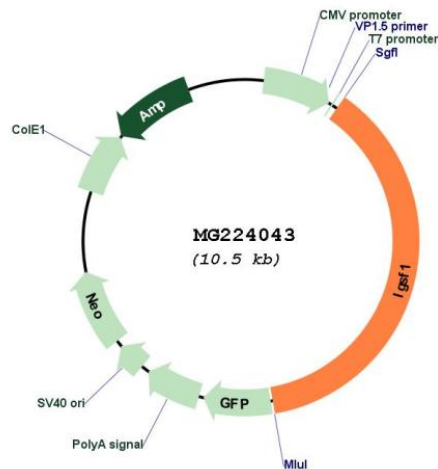
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_177591

**ORF Size:** 3951 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\\_177591.4](#), [NP\\_808259.2](#)

**RefSeq Size:** 4432 bp

**RefSeq ORF:** 3954 bp

**Locus ID:** 209268

**UniProt ID:** [Q7TQA1](#)

**Cytogenetics:** X A5

**Gene Summary:**

Seems to be a coreceptor in inhibin signaling, but seems not to be a high-affinity inhibin receptor. Antagonizes activin A signaling in the presence or absence of inhibin B. Necessary to mediate a specific antagonistic effect of inhibin B on activin-stimulated transcription (By similarity).[UniProtKB/Swiss-Prot Function]