

Product datasheet for **MR224043**

Igsf1 (NM_177591) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Igsf1 (NM_177591) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Igsf1
Synonyms: 5330413N23; 5530402E03; AI747649; InhBP/p120; mKIAA0364
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224043 representing NM_177591
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTTCGGACCTTCACTCTTTTGCTCCTTTGCATTTGGCTCAATCCGGGTATGACTTCACTGGCAG
TGGAGTCTCAACCAGAGCTATGGATAGAGTCCAACACCCAGGCCCTTGGGAGAATCACACTCTG
GTGCAAAAGCCCCTCTCGGGTATCCAGCAAGTTCTGCTTCTGAAGGATAACTCACAGATGACCTGGATT
CGTCTCCTTACAAGACATTCCAAGTTTCACTTTCATAGGTGCCCTTACTGAGTCCAATACAGGCTTT
ATCGATGCTGCTACTGGAAGGAGAAAGGCTGGTCAAACCCAGTAAAATTCTAGAGCTAGAAGCACCAGG
CCAACCTCCCTAAACCCATCTTCTGGATCCAGGCAGAGACCCCTTCTTCTGGATGCAATGTTAACATC
TTCTGCCATGGATGGCTCCAGGATTTGGTATTTATGCTGTTTAAAGAGGGATACACAGAGCCCGTAGATT
ACCAAGTCCCAACTGGGACAATGGCCATCTTCTCCATTGATAACTTGGCACCCGAGAATGAAGGGTTTA
CATCTGCCGCACTCATATCCAGATGCTCCCACTCTGTGGTCAGAGCCCAGCAATCCCTGAAGTTGGTG
GTAGCAGGTCTCTACCCAAACCAACTCTGACAGCCATCCTGGGCCATCCTGGCACCCGGAGAAAGCC
TGAGTCTCAGGTGTCAAGGGCCAATATATGGAATGACGTTTGCTTAAATGAGGTTGAAGACTTGAAGAA
ATCATTTTACCACAAGAAGCCAATAAAAAATGAGGCATATTTCTACTTCCAGGATCTGAAGATACAGGAT
ACAGGGCACTACCTCTGTTTTTACTATGATGGTTCATACAGGGGCTCTCTGCTTAGTGATATCCTGAAAA
TCTGGGTGACTGACACTTCCCTAAGACCTGGCTACTTGTTCAGCCCAGTCTGTGATTTCAATGGGTCA
GAACGTGAGCCTGAGGTGTGGAGGACTGATGGATGGAGTGGGTCTTGCACCTACAAAGAAGGAGAGAA
AAGCCCTTCAAGTTTCTGGATGCCTCCAGCAACTGGCAACAATTCATTCTTCTAAAGAATGTGACCT
ACAGGGATGCTGGCATCTATAGCTGTCATATTCTTACTTGGAAAGACATCCATTAAGATGGCAACATA
CAACACTGTGGAGCTGATGGTTGAGCTTGGCCAGTCCCGTGTCAAAGTAGGAAAGACCATCACCCCT
CAGTGCCGAGTGTCTCATCCAGTCTTGAATTTCTTTGGAATGGGAAGAAAGAACAACATTCCAAAAAT
TCTCAGTAGATGGAGACTTCTCATCACTGACATTGAAGGGCAAGGCACAGGAACCTACAGTTGCAGCTA
TCGATTGAGGCACACCCTAACACCTGGTCACATCGCAGTAAGCCTCTGAAGTTGGTGGGACCAGCAGGC



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TTCTCACCTGGAATTCATTCTGAATGAAGCTGTCAGGGTGCCTTAACCATGCAGCTTGCTTCCTTGC
TCTTGCTAGTGGTATGGATCCGGTGAAGTGTCCGAGACTGAGGCTCAGAGAAGCCTGGTTGTTGGGAAC
AGCTCAAGGGTGCATGCTCTTCACTCATGGCCCTCTTTGCTGTGGACTGTGCAATGGGGCATTG
ACAGAGGAGATTGAAATAGTCATGCCAACCCCTAAGCCTGAACTGTGGGCAGAGACGAACTCCCTCTGG
CCCCGTGGAAGAACTTAACCCCTGGTGCAGAAGCCCTCTGGCTCAACTAAGGAGTTTGTGTTACTGAA
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CTGACCCACAGCCACACCGGGAGTTACCATTGCCATTGATGGGAGGAGATGGCTGTGTCGGAGCCTAGTG
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CCAGGAACTGCAGATCCGCTGTAAGGATGGCTGGAAGGTTTGGGTTTGGCTGTATAAGAAGGGAGAG
CAGGAACTGTCCAGCAACTTGGTGTGTTGGGAGAGAAGCCTTCTTACAATTCAAAGAATGGAGGATA
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CATTTTCAGTGGGCTTGGTGTGAGGAAACTATAGCTGTCGTTATTATGACTTTTCCATCTGGTCTGAG
CCAGCAACCCCTGTGGAGCTCGTTGTGACAGAATTCTACCTAAACCCCACTCCCTGGCAGAGCCAGGCC
CTGTGGTCTTCCCTGGGAAGAATGTGACCTGCGCTGCCAAGGAATTTCCAGGGCATGAGGTTGCCCT
CTTGACAGGAGGTAATACCCCTTACAGTTCCAAAGTACCTCGGGGACCTCAGCTGACTTCCCTCCTC
CACACTGTTGGAGCACAGGACTTGGGAACTACAGCTGTGTCTACTATGAGACAACCATGTGCAACAGGG
GCTCATCCCTTAGCACCCCTCTTATGATCTGGGTGACTGATACATTCCCCAGACCATGGTTGTCTGCTGA
GCCTAGTCTGTGGTACCATGGGGCAGAATGTTACTCTATGGTGTCAAGGACCAGTCCGTGGAGTTGGG
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TCCCTATCATCAATATCTGGTGTAGCATAGGACGTTATAGCTGCTGTTACCACCCTGACTGGATGAG
CCCTATCAAGATACAGCCTAGCAACACTTGGAACCTCATAGTCACTGGTTTACTCCCTAAGCCCAGCCTG
TTAGTCCAGCCTGGTCCCATGGTAGCCCTGGAGAAAACGTGACTCTTCAATGTCAAGGAGAAGTCCAG
ATTCAACATTTGTCTGTTGAAGGAGGGGACGCGACAGCCCTTAGAACAACAGAGGCCAAGTGGGTACAG
AGCTGACTTCTGGATGCCAGTGGTGAAGGATCAAGATTCTGGTGTACAGCTGTGTTTATTATCTGGAT
TCTGCTCCCTTGTGGCTTCGAATCACAGCAACTCTCTAGAGATCTGGGTGACTGATAAGCCCCCTAAAC
CCTCTCTGTCAGCCTGGCCAGCACCATCTTCAAAGTGGCAAGGACATCACCCCTCAGTCCGAGGACC
CCTGCCAGGAGTTGAATTTGTGCTAGAGCATGATGGAGAAGAGGCTCCACAACAGTTTTCCGAGGATGGA
GATTTTGTATCGACAACCTGGAAGGAAAGGCATTGGAACCTACAGTTGCAGCTACCGCTGCAGGCCCT
ACCCTGATATCTGGTCAAGAGCCAGCGATACCCTGGAGCTGGTTGGAGCTGCAGGCCTGTGTCTAAGA
GTGCACTGTGGTAACATTGTCCGAAGTACCCTGATTGTGGTGGTTGTGGTAGCCTTGGGATAGTGCTA
GCCGTAGAGTGAAGAAGTGGCCTCGACTTCGGACTAGGGGCTCTGAGACAGATGGAAGAGATCAGACCG
TAGTCCTTGAAGAGTGAACCAAGAAGGAGAACCAGGCACTACCACCAATTCTCCTTCATCTGCCTCGCA
AGAAGTCTCAGTGAAGTACAGTTCCAATA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224043 representing NM_177591
 Red=Cloning site Green=Tags(s)

MMLRTFTLLLLCIWLNPGMTSLAVESQPELWIESNYPQAPWENITLWCKSPSRVSSKFLLLKDNSQMTWI
 RPPYKTFQVSFFIGALTESNTGLYRCCYWKEKWSKPSKILELEAPGQLPKPIFWIQAETPPLPGCNVNI
 FCHGWLQDLVFLMFKEGYTEPVDYQVPTGTMAIFSIDNLAPENEGVYICRTHIQMLPTLWSEPSNPLKLV
 VAGLYPKPTLTAHPGPI LAPGESLSLRQCQGP IYGMTFALMRLLEDLKKSFYHKKPIKNEYFYFDLKIQD
 TGHYLCFYDGSYRGSLLSDILKIWVTDTFPKTWLLVQPSPIVQMGQVSLRCCGLMDGVLALYKKGEE
 KPLQFLDASSNTGNSSFFLKNVTYRDAGIYSCHYYLTWKTSIKMATYNTVELMVVAWPSSVFKVGKTITL
 QCRVSHPVLEFSLWEERTTFQKF SVDGDFLITDIEGQGTGYSCSYRIEAHPNTWSHRSKPLKLVGPAG
 FLTWNISILNEAVRVSLTMQLASLLLLVWIRWKCRRRLREAWLLGTAQGVAMLFILMALLCCGLCNAL
 TEEIEIVMPTPKPELWAETNFPLAPWKNLTLWCRSPSGSTKEFVLLKDG TGWIATRPASEQVRAAFPLGA
 LTHSHTGSYHCHSWEEMAVSEPSEALELVGTDILPKPVI SASLPIRGQELQIRCKGWLEGLGFALYKKG
 QEPVQQLGAVGREAFFTIQRMEDKDEGNYSRTHTEMQPFK WSEPSEPLELVIKEMYKPFKKTWASPVV
 TPGSRVTFNCST SHEHMSF ILYKDGNEIASSDLAWGNPGGSTAHFLIISVGI GGGNYSCRYDFSIWSE
 PSNPVELVVFTEFYPKPTLLAQPGPVVLPKKNVTLRCQGI FQGMRFALLQEGTHTPLQFQSTSGTSADFL
 HTVGAQDFGNYSVYYETTMSNRGSSLSTPLMIWVTDTFPRPWL SAEPSSVVTMGQNVTLWCQGPVRGVG
 YILHKEGEATSMQLWGSTNEGAFPIINISGASIGRYS CCYHPDWMSPIKIQPSNTELEIVTGLLPKPSL
 LVQPGPMVAPGENVTLQCQGELPDSTFVLLKEGTRQPLEQQRPSGYRADFWMPVVRDQDSGVYSCVYYLD
 SAPL VASNHSNSLEI WVDKPPKPSL SAWPSTIFKLGKIDITLQCRGPLGVFVLEHDGEEAPQQFSEDG
 DFVIDNLEGGKIGNYSYRLQAYPDIWSEPSDTELELVGAAGPVAQECTVGNIVRSTLIVVVVVALGIVL
 AVEWKKWPRLRTRGSETDGRDQTVVLEECNQE GEPGTTTNSPSSASQEVSVELTVPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:	<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_177591.4 , NP_808259.2
RefSeq Size:	4432 bp
RefSeq ORF:	3954 bp
Locus ID:	209268
UniProt ID:	Q7TQA1
Cytogenetics:	X A5
MW:	147 kDa
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]