

Product datasheet for TP527409

Igf1r (NM_010513) Mouse Recombinant Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins	
Description:	Purified recombinant protein of Mouse insulin-like growth factor I receptor (Igf1r), with C- terminal MYC/DDK tag, expressed in HEK293T cells, 20ug	
Species:	Mouse	
Expression Host:	HEK293T	



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ORIGENE	lgf1r (NM_010513) Mouse Recombinant Protein – TP527409
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MKSGSGGGSPTSLWGLVFLSAALSLWPTSGEICGPGIDIRNDYQQLKRLENCTVIEGFLHILLISKAEDY RYRFPKLTVTTEYLLIFRVAGLESLGDLFPNLTVIRGWKLFYNYALVIFEMTILKDIGLYNNRWTRGWTTNR CQKMCPSVCGKRACTENNECCHPECLGSCHTPDDNTTCVACRHYYKGVCVPACPPGTYRFEGWRCVDR D FCANIPNAESSDSDGFVIHDDECMQECPSGFIRNSTQSMYCIPCEGPCPKVCGDEEKKTKTIDSVTSAQM LQGCTILKGNLLINIRGRNINASELENFMGLIEVYTGYVKIRHSHALVSLSFLKNILRILGEEQLEGNYS FYVLDNQNLQQLWDWNHRNLTVRSGKMYFAENPKLCVSEIYRMEEVTGTKGRQSKGDINTRNIGERAS CE SDULRFTSTTWKNRIIITWHRNRTPPYRRDLISFTVYYKEAPFKNYTEYDGQDACGSNSWINVDVDLPPN KEEGFGILLHGLKPVTQYAVYKAVTLTWVENDHIRGAKSELIYRTNASYPSIPLDVLSANSSQLIV KWNPPTLENGNLSYVYRWQRQPQDGYLYRHNYCSKDKIPIRKVADGTIDVEEYTENPKTEVCGGDKGPC CACPKTEAKCAKEEAEVKKWPFENFLINSINEPRERRDWQMQVANTTMSSPSRTTVATANDYNTDDE EFETEYPFFESRVDNKERTVISNLRPFTLYRIDHSCNHERRRDWMQVANTTMSSPSRTTVATANSKLINNGVTASNIPE CACKYTEAKCAKEEAEVKWFWFENFLINSINEPRERRRDWQMQVANTTMSSPSRTTVAGASAMERIEFLN EASONSWTDVEVWEKARKITMINRELGQGSGAMVEGAVKGVKKOPEFTRAVKIKVEAASMREIEFLN EASONSWTDEVFVNRATTTENTMENLINGGLGSGAMVEGAVKGVKKOPEFTRAVKIKVEAASMREIEFLN EASONSWTDEVFVNRLTGVSSPSENKPPEPEELEMEPENMESVPLDPSASSASLPLPERHSGHKAENG PGFOLVLAASFDERQPYAHMNGGRANERALPLPQSSTC TRTRPLEQKLSEEDLAANDILDYKDDDDV TG: C-MYC/DDK Predicted MW: 155.7 KDa Concentration: >0.05 gg/µL as determined by microplate BCA method	Expression cDNA Clone or AA Sequence:	>MR227409 representing NM_010513 Red=Cloning site Green=Tags(s)
FCANIPNAESSDSDGFVIHDDECMQECPSGFIRNSTQSMYCIPCEGPCPKVCGDEEKKTKTIDSVTSAQM LQGCTILKGNLLINIRRGNNIASELENFMGLIEVVTGYVKIRHSHALVSLSFLKNLRILIGEQLEGNYS PYVLDNQNLQQLWDWNHRNLTVRSGKMYFAFNPKLCVSEIYRMEEVTGTKGRQSKGDINTRNNGERAS CE SDVLRFTSTTTWKNRIIITWHRYRPPDVRDLISFTVYKEAPFKNYTEVDQDACGSNSWNMVDVDLPPN KEGEPGILLHGLKPWTQYAVYKAVTLTMVENDHIRGAKSEILVIRTNASVPSIPLDVLSASNSSQUV KWNPPTLPNGNLSYIVRWQRQPQDGYLYRHNVCSKDKIPIRKYADGTIDVEEVTENPKTEVCGGDKGPC 		RSYRFPKLTVITEYLLLFRVAGLESLGDLFPNLTVIRGWKLFYNYALVIFEMTNLKDIGLYNLRNITRGA IRIEKNADLCYLSTIDWSLILDAVSNNYIVGNKPPKECGDLCPGTLEEKPMCEKTTINNEYNYRCWTTNR CQKMCPSVCGKRACTENNECCHPECLGSCHTPDDNTTCVACRHYYYKGVCVPACPPGTYRFEGWRCVDR
SDVLRFTSTTTWKNRIIITWHRYRPPDYRDLISFTVYYKEAPFKNVTEYDGQDACGSNSWNMVDVDLPPN KEGEPGILLHGLRPWTQYAVYKAVTLTMVENDHIRGAAPSELVIRTNASVPSIPLDVLSASNSSSQLIV KWNPPTLPNGNLSYYIVRWQRQPQDGYLYRHNYCSKDKIPIRYADGTIDVEEVTENPKTEVCGGDKGPC CACPKTEAEKQAEKEEAEYRKVFENFLHNISISPRPERRRRDMQVANTTMSSRSRNTTVADTYNITDPE EFETEYPFFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFVFARTMPAEGADDIPGPVT WEPRPENSIFLKWPEPENNGLILMYEIKYGSQVEDQRECVSRCEYRKYGGAKLNRLNPGNYTARIQATS LSGNGSWTDPVFFYVPAKTTYENFMHLIIALPVAILLIVGGLVIMLYVFHRKRNNSRLGNQVLASVNPE 		FCANIPNAESSDSDGFVIHDDECMQECPSGFIRNSTQSMYCIPCEGPCPKVCGDEEKKTKTIDSVTSAQM LQGCTILKGNLLINIRRGNNIASELENFMGLIEVVTGYVKIRHSHALVSLSFLKNLRLILGEEQLEGNYS FYVLDNQNLQQLWDWNHRNLTVRSGKMYFAFNPKLCVSEIYRMEEVTGTKGRQSKGDINTRNNGERAS
THSDVWSFGVLWEIATLAEQPYQGLSNEQVLRFVMEGGLLDKPDNCPDMLFELMRMCWQYNPKM RPS FLEIIGSIKDEMEPSFQEVSFYSEENKPPEPEELEMEPENMESVPLDPSASSASLPLPERHSGHKAENG PGPGVLVLRASFDERQPYAHMNGGRANERALPLPQSSTCTag:TRTRPLEQKLISEEDLAANDILDYKDDDDKVTag:C-MYC/DDKPredicted MW:155.7 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3, 10% glycerolNote:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.Storage:Store at -80°C after receiving vials.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handing conditions. Avoid repeated freeze-thaw cycles.		SDVLRFTSTTTWKNRIIITWHRYRPPDYRDLISFTVYYKEAPFKNVTEYDGQDACGSNSWNMVDVDLPPN KEGEPGILLHGLKPWTQYAVYVKAVTLTMVENDHIRGAKSEILYIRTNASVPSIPLDVLSASNSSSQLIV KWNPPTLPNGNLSYYIVRWQRQPQDGYLYRHNYCSKDKIPIRKYADGTIDVEEVTENPKTEVCGGDKGPC CACPKTEAEKQAEKEEAEYRKVFENFLHNSIFVPRPERRRDVMQVANTTMSSRSRNTTVADTYNITDPE EFETEYPFFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFVFARTMPAEGADDIPGPVT WEPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGNYTARIQATS LSGNGSWTDPVFFYVPAKTTYENFMHLIIALPVAILLIVGGLVIMLYVFHRKRNNSRLGNGVLYASVNPE YFSAADVYVPDEWEVAREKITMNRELGQGSFGMVYEGVAKGVVKDEPETRVAIKTVNEAASMRERIEFLN EASVMKEFNCHHVVRLLGVVSQGQPTLVIMELMTRGDLKSYLRSLRPEVEQNNLVLIPPSLSKMIQMAGE IADGMAYLNANKFVHRDLAARNCMVAEDFTVKIGDFGMTRDIYETDYYRKGGKGLLPVRWMSPESLKDG
Tag:C-MYC/DDKPredicted MW:155.7 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolNote:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.Storage:Store at -80°C after receiving vials.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.		FTTHSDVWSFGVVLWEIATLAEQPYQGLSNEQVLRFVMEGGLLDKPDNCPDMLFELMRMCWQYNPKM RPS FLEIIGSIKDEMEPSFQEVSFYYSEENKPPEPEELEMEPENMESVPLDPSASSASLPLPERHSGHKAENG
Tag:C-MYC/DDKPredicted MW:155.7 kDaConcentration:>0.05 µg/µL as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolNote:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.Storage:Store at -80°C after receiving vials.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.		
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Buffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerolNote:For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.Storage:Store at -80°C after receiving vials.Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.		
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Stability:Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.		For testing in cell culture applications, please filter before use. Note that you may experience
handling conditions. Avoid repeated freeze-thaw cycles.	Storage:	Store at -80°C after receiving vials.
RefSeq: <u>NP 034643</u>	-	Stable for 12 months from the date of receipt of the product under proper storage and
	RefSeq:	<u>NP 034643</u>

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	lgf1r (NM_010513) Mouse Recombinant Protein – TP527409	
Locus ID:	16001	
UniProt ID:	<u>Q60751</u>	
RefSeq Size:	11978	
Cytogenetics:	7 37.27 cM	
RefSeq ORF:	4107	
Synonyms:	A330103N21Rik; CD221; D930020L01; hyft; IGF-1R	
Summary:	Receptor tyrosine kinase which mediates actions of insulin-like growt IGF1 with high affinity and IGF2 and insulin (INS) with a lower affinity.	

th factor 1 (IGF1). Binds ty. The activated IGF1R is involved in cell growth and survival control. IGF1R is crucial for tumor transformation and survival of malignant cell. Ligand binding activates the receptor kinase, leading to receptor autophosphorylation, and tyrosines phosphorylation of multiple substrates, that function as signaling adapter proteins including, the insulin-receptor substrates (IRS1/2), Shc and 14-3-3 proteins. Phosphorylation of IRSs proteins lead to the activation of two main signaling pathways: the PI3K-AKT/PKB pathway and the Ras-MAPK pathway. The result of activating the MAPK pathway is increased cellular proliferation, whereas activating the PI3K pathway inhibits apoptosis and stimulates protein synthesis. Phosphorylated IRS1 can activate the 85 kDa regulatory subunit of PI3K (PIK3R1), leading to activation of several downstream substrates, including protein AKT/PKB. AKT phosphorylation, in turn, enhances protein synthesis through mTOR activation and triggers the antiapoptotic effects of IGFIR through phosphorylation and inactivation of BAD. In parallel to PI3K-driven signaling, recruitment of Grb2/SOS by phosphorylated IRS1 or Shc leads to recruitment of Ras and activation of the ras-MAPK pathway. In addition to these two main signaling pathways IGF1R signals also through the Janus kinase/signal transducer and activator of transcription pathway (JAK/STAT). Phosphorylation of JAK proteins can lead to phosphorylation/activation of signal transducers and activators of transcription (STAT) proteins. In particular activation of STAT3, may be essential for the transforming activity of IGF1R. The JAK/STAT pathway activates gene transcription and may be responsible for the transforming activity. INK kinases can also be activated by the IGF1R. IGF1 exerts inhibiting activities on JNK activation via phosphorylation and inhibition of MAP3K5/ASK1, which is able to directly associate with the IGF1R (By similarity). When present in a hybrid receptor with INSR, binds IGF1 (By similarity). [UniProtKB/Swiss-Prot Function]

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Product images:

116 —	
66 —	
45 —	
35 —	
25 —	
18	
14 —	

Purified recombinant protein lgf1r was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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