

OriGene Technologies, Inc.

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Product datasheet for PH301855

PKM2 (PKM) (NM_002654) Human Mass Spec Standard

Product data:

Description:PKM2 MS Standard C13 and N15-labeled recombinant protein (NP_002645)Species:HumanExpression Host:HEK293Expression DNACtionsRec01855or AA Sequence:Rec10855 protein sequencePredicted MW:S.9. NoPredicted MW:Rec201855 protein sequenceRed-Cloning site Green-Tags(s)MSKPHSEAGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTICTIGPASRSVETLKEMIKSGNW VARMFSEGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTISTISTEMEGYNAVE VARMFSEGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTISTISTEMEGYNAVE VARMFSEGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTISTISTEMEGYNAVE VARMFSEGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTISTISTEMEGYNAVE VARMFSEGTAFIQQUHAMADTFLEHMCRLDIDSPPTTARNTGTISTISTEMEGYNAVE VARMFSEGTAFICTIVETYMATTESFASDP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASDP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFICTISTEMETYMATISTESFASTP11 VRPVVALDTKOPETAFI	Product Type:	Mass Spec Standards
Expression Host:HEK293Expression DNA CloneRC201855Predicted MW:5.7.9 kDaProtein Sequence:RC201855 protein sequence Red=Cloning site Green=Tags(s)MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGMN VARINFSHGTHEVHAETIKNVFTATESFASDPILYRPVAVALDKPGETRTGLIKGSGTAEVELKKGATL KTILDNAYMEKCDENILW.DVKIKCVVEVGSKIVVDGLISLQVKGKADFLYTEVINGGSLGSKKGVN LPGAAVDLPAVSEKDOLHKEVCQDWYASSTIRKASDVHEVKKVGGKKAKNIKITSKITHEGOVRRF DEILEASDGIMVARGDLGIEIPAEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPPTRAEGSDVAN AVLDGADCIHLSEGTAKOUVLFLGVKMPHILARTMSDVEVKVLGKKKNIKITSKITHEGOVRRF DEILEASDGIMVARGDLGIEIPAEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPPTRAEGSDVAN AVLDGADCIHLSEGTAKOUVLFGVGDDKFTag:CMyC/DDKFreccesatilvit TKSGRSh4QVARVBPRFMILATRRPMPHILARTRPDFLARVGNQVEASP FKCCSGSAGUVLTGWRPGSGFTNTMRVVPVPTag:CMyC/DDKSonentration:3.005 µg/µL as determined by microplate BCA methodLabeling Method:Lbeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:0.505 µg/µL as determined by microplate BCA methodLabeling Method:Store at 80°C. Avoid repeated freeze-thaw cycles.Storage:0.501 µG1645	Description:	PKM2 MS Standard C13 and N15-labeled recombinant protein (NP_002645)
Expression cDNA CloneRC201855Predicted MW:57.9 kDaProtein Sequence:>RC201855 protein sequenceRed=Cloning site Green=Tags(s)MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGNN VARLNFSHGTHEYHAETIKNWRTATESFASDPILYRPVAVALDKGPEIRTGLIKGSGTAEVELKKGATL KITLDNAYMEKCDENILWLDYKNICKVEVGSKIYVDDGLISLQVKKQKGADFLVTEVENGSLGSKKGVN LEFGAAVDLPAVSEKDIQDLKFGVEQDVDWFASFIRKASDVHEVRKVLGEKGKNIKKISKIENHEGVRRF DEILEASDGIMVAROLGIETPAEKVFLQKMMIGRCNRAKKPVICATQMLESMIKKPRFTRAEGSDVAN AVLDGADCIMLSGETAKGDYPLEAYRMQHLIAREAEAAIYHQLFEELRRLAPITSDPTEATAVGAVEAS FKCCSGAITULTKSGRSAHQVARYRPRAPIIATTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV NFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVPTag:C-Myc/DDKPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:0.05 µg/µL as determined by microplate BCA methodLabeling Method:Store at -80°C. Avoid repeated freeze-thaw cycles.Storage:Stole for 3 months from receipt of products under proper storage and handling conditions.RefSeq:NP 002645	Species:	Human
or AA Sequence:Predicted MW:57.9 kDaProtein Sequence:Rc201855 protein sequence Red=Cloning site Green=Tags(s)MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGNN VARLNFSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATL KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDOLSISQVKQK6ADFLVTEVENGGSLGSKKGVN PEGADDLAKKODPLEAKVFLAQKMIGRCNNAKKPVICATOMLESMIKKRPRPTRAEGSDVAN AVLDGADCIMLSGETAKGDYPLEAVFRQULGRVRAUGEKGKNIKIISKIENHEGVRRF DEFILEASDCIMVARGDLGTETPAEKVFLAQKMIGRCNNAKKPVICATOMLESMIKKPPPTRAEGSDVAN AVLDGADCIMLSGETAKGDYPLEAVRQULIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEAS FKCCSGAIIVLTKSGRSAHQVARYRRPAIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV NFAMNVGKARGFFKKGDVVIVLTGRPGSGFTNTMRVPVPTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:Store at -80°C. Avoid repeated freeze-thaw cycles.Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Kable for 3 months from receipt of products under proper storage and handling conditions.RefSeq:NP.002645	Expression Host:	HEK293
Protein Sequence:>RC201855 protein sequence Red=Cloning site Green=Tags(s)MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGMN VARLNFSHGTHEVHAETIKNWRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATL KITLDNAYMEKCDENILWLDYKNICKVEVESKIYVDDGLISLQVKOKGADFLVTEVENGSLGSKKGVN LPGAAVDLPAVSEKDIQDLKFGVEQOVDWPASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRF DEILEASDGIMVARGDLGIEIPAEKVFLAQKMIGGCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAR DEILEASDGIMVARGDLGIEIPAEKVFLAQKMIGGCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAR DEILEASDGIMVARGDLGIEIPAEKVFLAQKMIGCONRAGKPVICATQMLESMIKKPRPTAAEGADVEAS FKCCSGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV NFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVPTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.ReSeq:MP 002645	•	RC201855
Red=Cloning site Green=Tags(s)MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPITARNTGIICTIGPASRSVETLKEMIKSGMN VARLNFSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATL KITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVN LPGAAVDLPAVSEKDIQDLKFGVEQDVDVMYASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRF DEILEASDGINVARGDLGIEIPAEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN AVLDGADCIMLSGETAKGDVPLEAVRMQHLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEAS FKCCSGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV NFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVPTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCI, 100 mM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq:NP_002645	Predicted MW:	57.9 kDa
VARLNF SHG THE YHAET IKNVRT AT ESFASDPIL YRP VAVALDT KGPE IR TGLIKGSGT AE VELKKGAT L KTTLDNAYMEKCDENIL MLDYKNICK VVE VGSKIT VDDGLISLQVKQKGADFLVTE VENGGSLGSKKGVN LPGAAVDLPAVSEKDIQDLKFGVEQOVDMVF ASFIRKASDVHEVRKVLGEKGKNIKII SKIENHEGVRRF DEILEASDGIMVARGDLGIE IPAEKVFLAQKMMIGRCNRAGKPVICAT QMLESMIKKPRPT RAEGSDVAN AVLDGADCIMLSGET AKGD VPLEAVR MQHLIAREAEAAI YHLQLFEELRRLAPIT SDP TEATAVGAVEAS FKCCSGAI I VLTKSGRSAHQVARYRPRAPI I AVTRNPQT ARQAHL YRGI FPVLCKDPVQEAWAEDVDLRV NFAMNVGKARGFFKKGDVVI VLT GWRPGSGFTNT MRVVPVPTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:Storage:Storage:Stora at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stable for 3 months from receipt of products under proper storage and handling conditions.RefSeq:MP 002645	Protein Sequence:	
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RefSeq: <u>NP 002645</u>	Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
	Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq Size:2516	RefSeq:	<u>NP 002645</u>
	RefSeq Size:	2516
RefSeq ORF: 1593	RefSeq ORF:	1593



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	PKM2 (PKM) (NM_002654) Human Mass Spec Standard – PH301855
Synonyms:	CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1
Locus ID:	5315
UniProt ID:	<u>P14618, V9HWB8</u>
Cytogenetics:	15q23
Summary:	This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported. [provided by RefSeq, May 2011]
Protein Families:	Druggable Genome
Protein Pathway	s: Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus

Product images:

Mr 191 -97 -64 -51 -39 -28 -19 -14 -

Coomassie blue staining of purified PKM protein (Cat# [TP301855]). The protein was produced from HEK293T cells transfected with PKM cDNA clone (Cat# [RC201855]) using MegaTran 2.0 (Cat# [TT210002]).

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