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Product datasheet for RC205217

KIAA1434 (GPCPD1) (NM_019593) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA1434 (GPCPD1) (NM_019593) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA1434
Synonyms:	EDI3; GDE5; GDPD6; PREI4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205217 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACCTTCTCAGGTTGCCTTTGAAATAAGAGGAACTCTTTTACCAGGAGAAGTTTTTGCGATATGTG
GAAGCTGTGATGCTTTGGGAAACTGGAATCCTCAAAATGCTGTGGCTCTTCTTCCAGAGAATGACACAGG
TGAAAGCATGCTATGGAAAGCAACCATTGTACTCAGTAGAGGAGTATCAGTTCAGTATCGCTACTTCAAA
GGGTACTTTTTAGAACCAAAGACTATCGGTGGTCCATGTCAAGTGATAGTTCACAAGTGGGAGACTCATC
TACAACCACGATCAATAACCCCTTTAGAAAGCGAAATTATTATTGACGATGGACAATTTGGAATCCACAA
TGGTGTTGAAACTCTGGATTCTGGATGGCTGACATGTCAGACTGAAATAAGATTACGTTTGCATTATTCT
GAAAAACCTCCTGTGTCAATAACCAAGAAAAAATTAAAAAAATCTAGATTTAGGGTGAAGCTGACACTAG
AAGGCCTGGAGGAAGATGACGATGATAGGGTATCTCCCACTGTACTCCACAAAATGTCCAATAGCTTGGA
GATATCCTTAATAAGCGACAATGAGTTCAAGTGCAGGCATTCACAGCCGGAGTGTGGTTATGGCTTGCAG
CCTGATCGTTGGACAGAGTACAGCATACAGACGATGGAACCAGATAACCTGGAACTAATCTTTGATTTTT
TCGAAGAAGATCTCAGTGAGCACGTAGTTCAGGGTGATGCCCTTCCTGGACATGTGGGTACAGCTTGTCT
CTTATCATCCACCATTGCTGAGAGTGGAAAGAGTGCTGGAATTCTTACTCTTCCCATCATGAGCAGAAAT
TCCCGGAAAACAATAGGCAAAGTGAGAGTTGACTATATAATTATTAAGCCATTACCAGGATACAGTTGTG
ACATGAAATCTTCATTTTCCAAGTATTGGAAGCCAAGAATACCATTGGATGTTGGCCATCGAGGTGCAGG
AAACTCTACAACAACTGCCCAGCTGGCTAAAGTTCAAGAAAATACTATTGCTTCTTTAAGAAATGCTGCT
AGTCATGGTGCAGCCTTTGTAGAATTTGACGTACACCTTTCAAAGGACTTTGTGCCCGTGGTATATCATG
ATCTTACCTGTTGTTTGACTATGAAAAAGAAATTTGATGCTGATCCAGTTGAATTATTTGAAATTCCAGT
AAAAGAATTAACATTTGACCAACTCCAGTTGTTAAAGCTCACTCATGTGACTGCACTGAAATCTAAGGAT
CGGAAAGAATCTGTGGTTCAGGAGGAAAATTCCTTTTCAGAAAATCAGCCATTTCCTTCTCTTAAGATGG
TTTTAGAGTCTTTGCCAGAAGATGTAGGGTTTAACATTGAAATAAAATGGATCTGCCAGCAAAGGGATGG
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TTAGAAAATTCTGGGAAGAGGAGAATAGTGTTTTCTTCATTTGATGCAGATATTTGCACAATGGTTCGGC
AAAAGCAGAACAAATATCCGATACTATTTTTAACTCAAGGAAAATCTGAGATTTATCCTGAACTCATGGA
CCTCAGATCTCGGACAACCCCCATTGCAATGAGCTTTGCACAGTTTGAAAATCTACTGGGGATAAATGTA
CATACTGAAGACTTGCTCAGAAACCCATCCTATATTCAAGAGGCAAAAGCTAAGGGACTAGTCATATTCT
GCTGGGGTGATGATACCAATGATCCTGAAAACAGAAGGAAATTGAAGGAACTTGGAGTTAATGGTCTAAT
TTATGATAGGATATATGATTGGATGCCTGAACAACCAAATATATTCCAAGTGGAGCAATTGGAACGCCTG
AAGCAGGAATTGCCAGAGCTTAAGAGCTGTTTGTGTCCCACTGTTAGCCGCTTTGTTCCCTCATCTTTGT
GTGGGGAGTCTGATATCCATGTGGATGCCAACGGCATTGATAACGTGGAGAATGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205217 protein sequence
Red=Cloning site Green=Tags(s)

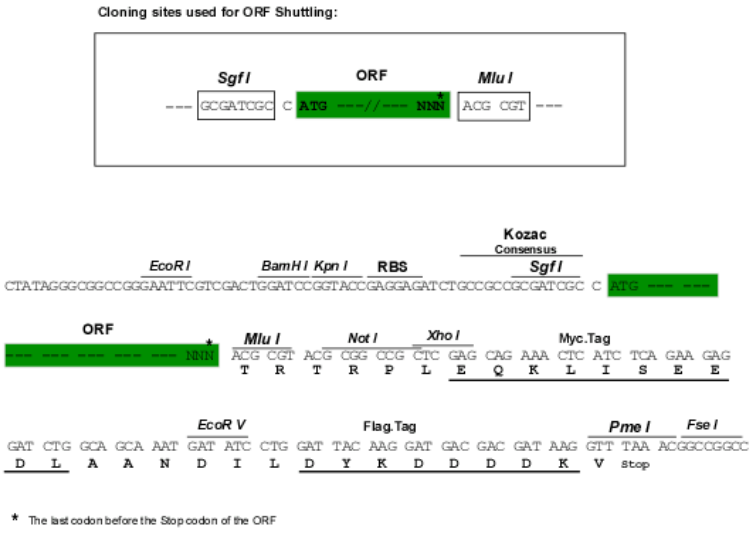
MTPSQVAFEIRGTLLPGEVFAICGSCDALGNWNPQNAVALLPENDTGESMLWKATIVLSRGVSVQYRYFK
GYFLEPKTIGGPCQVIVHKWETHLQPRSITPLESEIIIDDGQFGIHNGVETLDSGWLTCQTEIRLRLHYS
EKPPVSITKKKLKKSRFRVKLTLEGLEEDDDDRVSPTVLHKMSNSLEISLISDNEFKCRHSQPECGYGLQ
PDRWTEYSIQTMEPDNLELIFDFFEEDLSEHVVQGDALPGHVGTACLLSSTIAESGKSAGILTLPIMSRN
SRKTIGKVRVDYIIIKPLPGYSCDMKSSFSKYWKPRIPLDVGHRGAGNSTTTAQLAKVQENTIASLRNAA
SHGAAFVEFDVHLSKDFVPVVYHDLTCCLTMKKKFDADPVELFEIPVKELTFDQLQLLKLTHVTALKSKD
RKESVVQEENSFSENQPFPSLKMVLESLPEDVGFNIEIKWICQQRDGMWDGNLSTYFDMNLFLDIILKTV
LENSGKRRIVFSSFDADICTMVRQKQNKYPILFLTQGKSEIYPELMDLRSRTTPIAMSFAQFENLLGINV
HTEDLLRNPSYIQEAKAKGLVIFCWGDDTNDPENRRKLKELGVNGLIYDRIYDWMPEQPNIFQVEQLERL
KQELPELKSCLCPTVSRFVPSSLCGESDIHVDANGIDNVENA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6201_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

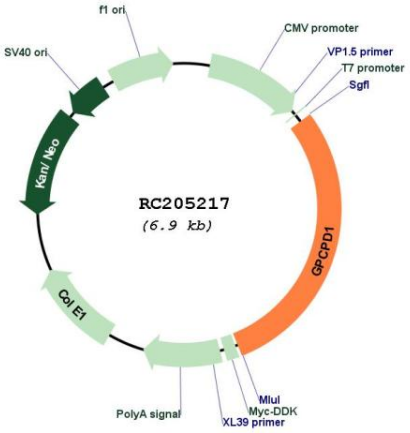


ACCN: NM_019593

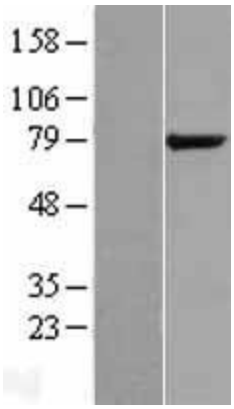
ORF Size: 2016 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_019593.5
RefSeq Size:	5478 bp
RefSeq ORF:	2019 bp
Locus ID:	56261
UniProt ID:	Q9NPB8
Cytogenetics:	20p12.3
MW:	76 kDa
Gene Summary:	May be involved in the negative regulation of skeletal muscle differentiation, independently of its glycerophosphocholine phosphodiesterase activity.[UniProtKB/Swiss-Prot Function]

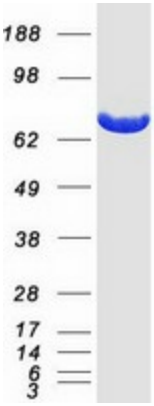
Product images:



Circular map for RC205217



Western blot validation of overexpression lysate (Cat# [LY402738]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205217 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPCPD1 protein (Cat# [TP305217]). The protein was produced from HEK293T cells transfected with GPCPD1 cDNA clone (Cat# RC205217) using MegaTran 2.0 (Cat# [TT210002]).