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Product datasheet for RC212299

HYKK (NM_001013619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYKK (NM_001013619) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HYKK
Synonyms:	AGPHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212299 representing NM_001013619
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAAGTGGAAACTATCAGCAGTCAGAGGCTCTTAGCAAACCCACTTTCAGTGAGGAACAAGCCTCTG
CGTTAGTGGAGTCAGTGTTTGGGTTGAAAGTTTCCAAGGTCCGGCCACTTCCTAGCTATGATGACCAAAA
CTTTCATGTCTACGTTTCAAAAACCAAAGATGGCCCAACTGAATATGTCCTCAAAATAAGCAACACCAAG
GCTAGCAAAAATCCAGACCTGATTGAAGTGCAGAATCACATCATCATGTTTCTGAAAGCCGCTGGATTTC
CAACAGCCTCTGTGTGTCACACTAAAGGAGACAACACAGCTTCTCTCGTGTCTGTAGATAGTGGCTCTGA
AATCAAAAGCTACTTGGTGAGGCTGCTGACTTACCTCCCAGGAAGACCCATCGCTGAGCTTCCCGTCAGC
CCCCAGCTATTGTATGAAATTGGAAAACTAGCTGCCAAATTGGATAAGACACTGCAGAGATTCCATCACC
CAAAGTTAAGTAGTCTTCATCGGGAGAACTTCATCTGGAATCTGAAAAATGTTCCTCTTCTGGAGAAATA
CCTGTATGCCCTGGGCCAGAATCGAAACCGAGAGATTGTTGAGCATGTCATTCATCTGTTCAAGGAGGAA
GTAATGACCAAATTAAGTCATTTTCGAGAATGTATCAATCACGGAGATCTTAATGACCATAATATTTTAA
TAGAGTCCAGCAAGTCAGCCTCTGGAAATGCTGAATATCAAGTGTCTGGGATTTTAGACTTTGGTGACAT
GAGCTATGGCTACTATGTGTTTGAAGTGGCAATTACCATCATGTACATGATGATTGAGAGCAAGAGTCCT
ATACAAGTAGGAGGCCATGTCCTTGCAGGGTTTGAAAGCATCACCCCACTGACAGCTGTAGAGAAGGGTG
CTTTGTTTTTACTTGTATGCAGTCGTTTTTGTCAGTCACTTGTCATGGCTGCATACTCTTGCCAGCTATA
CCCAGAGAACAAAGACTATCTCATGGTTACTGCAAAAACCGGGTGGAAACACTTACAGCAAATGTTTGAC
ATGGGTCAGAAAGCTGTAGAAGAAATCTGGTTTGAAACTGCCAAATCCTATGAATCTGGGATCTCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC212299 representing NM_001013619
Red=Cloning site Green=Tags(s)

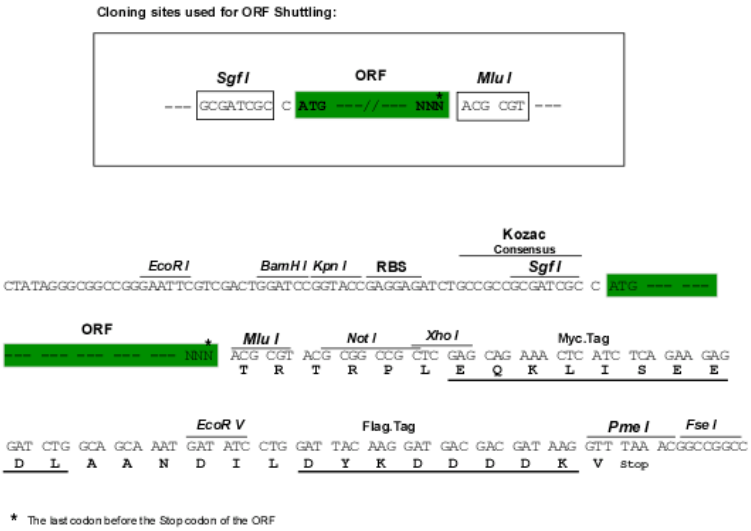
MSSGNYQQSEALSKPTFSEEQASALVESVFGLKVSKVRPLPSYDDQNFHVYVSKTKDGPTEYVLKISNTK
ASKNPDLIEVQNHIIMFLKAAGFPTASVCHTKGDNTASLVSVDSGSEIKSYLVRLLTYLPGRPIAELPVS
PQLLYEIGKLAAKLDKTLQRFHHPKLSSLHRENFIWNLKNVPLLEKYLYALGQNRNREIVEHVIHLFKEE
VMTKLSHFRECINHGDLNDHNILIESSKSASGNAEYQVSGILDFGDMSYGYYVFEVAITIMYMMIESKSP
IQVGGHVLAGFESITPLTAVEKGALFLLVCSRFCQSLVMAAYSCQLYPENKDYLMVTAKTGWKHLQQMFD
MGQKAVEEIWFETAKSYESGISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001013619

ORF Size: 1119 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).

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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_001013619.4

RefSeq Size: 1235 bp

RefSeq ORF: 1122 bp

Locus ID: 123688

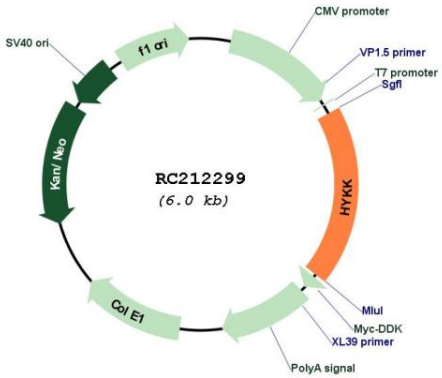
UniProt ID: A2RU49

Cytogenetics: 15q25.1

MW: 41.8 kDa

Gene Summary: Catalyzes the GTP-dependent phosphorylation of 5-hydroxy-L-lysine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212299

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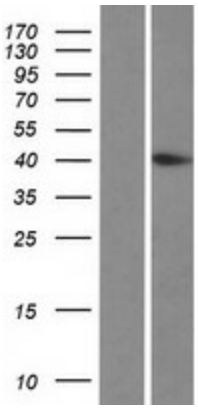
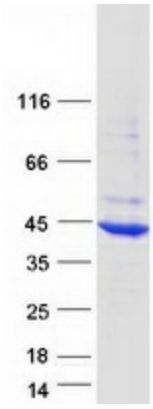


Western blot validation of overexpression lysate (Cat# [LY422983]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212299 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HYKK protein (Cat# [TP312299]). The protein was produced from HEK293T cells transfected with HYKK cDNA clone (Cat# RC212299) using MegaTran 2.0 (Cat# [TT210002]).

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