

## 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCAAGTGAAACTATCAGCAGTCAGAGGCTCTTAGCAAACCCACTTTCAGTGAGGAACAAGCCTCTG  
CGTTAGTGGAGTCAGTGTGGTTGAAAGTTCCAAGGTCGGCCACTTCTAGCTATGATGACCAAAA  
CTTTCATGTCTACGTTTCAAAAACCAAGATGGCCCACTGAATATGTCCTCAAATAAGCAACACCAAG  
GCTAGCAAAAATCCAGACCTGATTGAAGTGCAGAATCACATCATCATGTTTCTGAAAGCCGCTGGATTC  
CAACAGCCTCTGTGTGCACACTAAAGGAGACAACACAGCTTCTCTCGTGTCTGTAGATAGTGGCTCTGA  
AATCAAAAGCTACTTGGTGAGGCTGCTGACTTACCTCCCAGGAAGACCCATCGCTGAGCTTCCCCTCAGC  
CCCCAGCTATTGTATGAAATTGGAAAACAGCTGCCAAATTGGATAAGACTGCAGAGATTCCATCACC  
CAAAGTTAAGTAGTCTTCATCGGGAGAACTTCACTGGAATCTGAAAAATGTTTCTTCTGAGAAATA  
CCTGTATGCCCTGGGCCAGAATCGAAACCGAGAGATTGTTGAGCATGTCATTCACTGTTCAAGGAGGAA  
GTAATGACCAAATTAAGTCATTTTCGAGAATGTATCAATCACGGAGATCTTAATGACCATAATATTTAA  
TAGAGTCCAGCAAGTCAGCCTCTGGAAATGCTGAATATCAAGTGTCTGGGATTTAGACTTTGGTGACAT  
GAGCTATGGCTACTATGTGTTGAAGTGCAATTACCATCATGTACATGATGATTGAGAGCAAGAGTCTT  
ATACAAGTAGGAGGCCATGTCTTGCAGGTTTGAAGCATCACCCACTGACAGCTGTAGAGAAGGGTG  
CTTTGTTTTTACTTGTATGCAGTCGTTTTTGTGTCAGTCACTTGTGTCATGGCTGCATACTTTGCCAGCTATA  
CCCAGAGAACAAAGACTATCTCATGTTTACTGCAAAAACCGGGTGGAAACACTTACAGCAAATGTTTGAC  
ATGGGTCAGAAAGCTGTAGAAGAAATCTGGTTTAAAACGCAAAATCCTATGAATCTGGGATCTCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA



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**Protein Sequence:** >RC212299 representing NM\_001013619  
Red=Cloning site Green=Tags(s)

MSSGNYYQSEALSKPTFSEEQASALVESVFGLKVKVRPLPSYDDQNFHVYVSKTKDGPTEYVLKISNTK  
 ASKNPDLIEVQNHIIIMFLKAAGFPTASVCHTKGDNTASLVSDSGSEIKSYLVRLLTYLPGRPIAELPVS  
 PQLLYEIGKLAALKDKTLQRFHHPKLSLHRENFIWNLKNVPLLEKYLALGQNRNREIVEHVIHLFKEE  
 VMTKLSHFRECINHGDLNDHNILIESSKSASGNAEYQVSGILDFGDMSYGYVFEVAITIMYMMIESKSP  
 IQVGGHVLAFESITPLTAVEKGALFLLVCSRFCQSLVMAAYSCQLYPENKDYLMTAKTGWKHLQQMF  
 MGQKAVEEIIWFETAHSYSGISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8026\\_d01.zip](https://cdn.origene.com/chromatograms/mk8026_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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).

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001013619.4](#)

**RefSeq Size:** 1235 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 123688

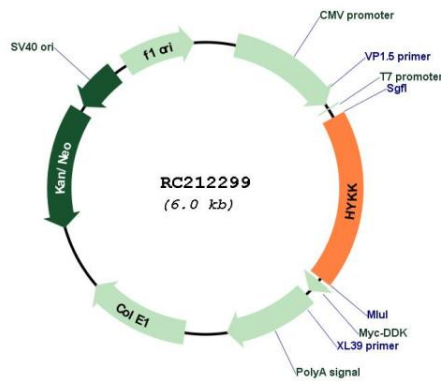
**UniProt ID:** [A2RU49](#)

**Cytogenetics:** 15q25.1

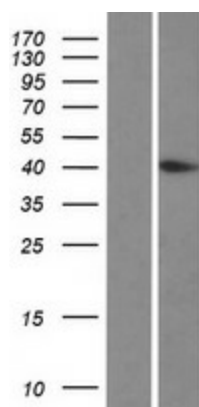
**MW:** 41.8 kDa

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

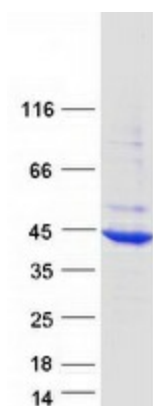
**Product images:**



Circular map for RC212299



Western blot validation of overexpression lysate (Cat# [LY422983]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected 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]).