

Product datasheet for **RG212299**

HYKK (NM_001013619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYKK (NM_001013619) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HYKK
Synonyms:	AGPHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212299 representing NM_001013619 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCAAGTGAAACTATCAGCAGTCAGAGGCTCTTAGCAAACCCACTTTCAGTGAGGAACAAGCCTCTG
 CGTTAGTGGAGTCAGTGTGGTTGAAAGTTTCCAAGGTCCGGCCACTTCCTAGCTATGATGACCAAAA
 CTTTCATGTCTACGTTTCAAAAACCAAGATGGCCCACTGAATATGTCCTCAAAATAAGCAACACCAAG
 GCTAGCAAAAATCCAGACCTGATTGAAGTGCAGAAATCACATCATCATGTTTCTGAAAGCCGCTGGATTT
 CAACAGCCTCTGTGTGCACACTAAAGGAGACAACACAGCTTCTCTCGTGTCTGTAGATAGTGGCTCTGA
 AATCAAAAGCTACTTGGTGAGGCTGCTGACTTACCTCCCAGGAAGACCCATCGCTGAGCTTCCCGTCAGC
 CCCAGCTATTGTATGAAATTGGAAAACCTAGCTGCCAAATTGGATAAGACACTGCAGAGATTCCATCACC
 CAAAGTTAAGTAGTCTTCATCGGGAGAAGTTCATCTGGAATCTGAAAAATGTTCTCTTCTGGAGAAATA
 CCTGTATGCCCTGGGCCAGAATCGAAACCGAGAGATTGTTGAGCATGTCATTCATCTGTTCAAGGAGGAA
 GTAATGACCAAAATTAAGTCATTTTCGAGAATGTATCAATCACGGAGATCTTAATGACCATAATATTTTAA
 TAGAGTCCAGCAAGTCAGCCTCTGGAAATGCTGAATATCAAGTGTCTGGGATTTTAGACTTTGGTGACAT
 GAGCTATGGCTACTATGTGTTGAAGTGCAATTACCATCATGTACATGATGATTGAGAGCAAGAGTCCT
 ATACAAGTAGGAGGCCATGTCTTGCAGGTTTGAAGCATCACCCCACTGACAGCTGTAGAGAAGGGTG
 CTTTGTCTTTTACTTGATGCAGTCGTTTTTGTCACTGCTTGTATGGCTGCATACTCTTCCAGCTATA
 CCCAGAGAACAAAGACTATCTCATGTTTACTGCAAAAACCGGGTGGAAACACTTACAGCAATGTTTGAC
 ATGGGTGAGAAAGCTGTAGAAGAAATCTGGTTTGAAGTCCAAATCCTATGAATCTGGGATCTCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG212299 representing NM_001013619
 Red=Cloning site Green=Tags(s)

MSSGNYQQSEALSKPTFSEEQASALVESVFLKVKVRPLPSYDDQNFHVYVSKTKDGPTEYVLKISNTK
 ASKNPDLIEVQNHIIMFLKAAGFPTASVCHTKGDNTASLVSDSGSEIKSYLVRLTYLPGRPIAELPVS
 PQLLYEIGKLAALKDKTLQRFHHPKLSSLHRENFWNLKNVPLEKYLALGQNRNREIVEHVIHLFKEE
 VMTKLSHFRECINHGDLNDHNILIESSKSASGNAEYQVSGILDFGDMSYGYVFEVAITIMYMMIESKSP
 IQVGGHVLAFESITPLTAVEKGALFLLVCSRFCQSLVMAAYSCQLYPENKDYLMVTAKTGWKHLQQMF
 MGQKAVEEIIWFETAKSYESGISM

TRTRPLE – GFP Tag – V

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).

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

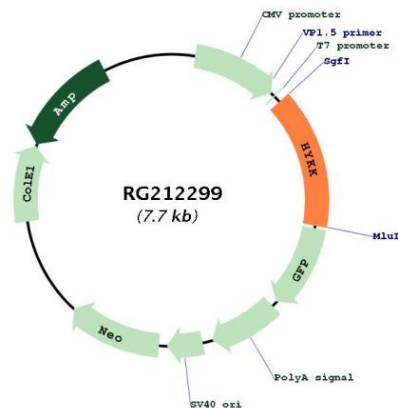
Locus ID: 123688

UniProt ID: [A2RU49](#)

Cytogenetics: 15q25.1

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

Product images:



Circular map for RG212299