

Product datasheet for **RG205549**

HIPK4 (NM_144685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK4 (NM_144685) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIPK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205549 representing NM_144685
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCACCATCCAGTCCGAGACTGACTGCTACGACATCATCGAGGTCTTGGCAAGGGGACCTTCGGGG
 AGGTAGCCAAGGGCTGGCGGCGGAGCACGGGCGAGATGGTGGCCATCAAGATCCTCAAGAATGACGCCTA
 CCGCAACCGCATCATCAAAAACGAGCTGAAGTCTGCTGACTGCATGCGAGGCCTAGACCCCTGAAGAGGCC
 CACGTCATCCGCTTCTTGAGTTCTTCCATGACGCCCTCAAGTTCTACCTGGTCTTTGAGCTGCTGGAGC
 AAAACCTTTTCGAGTTCCAGAAGGAGAACAACCTTCGCGCCCTCCCGCCCGCCACATCCGTACAGTCAC
 CCTGCAGGTGCTCACAGCCCTGGCCCGGCTCAAGGAGTGGCTATCATCCACGCTGATCTCAAGCCTGAG
 AACATCATGCTGGTGGACCAGACCCGCTGCCCTTCAGGGTCAAGGTGATTGACTTCGGATCCGCCAGCA
 TTTTCAGCGAGGTGCGCTACGTGAAGGAGCCATACATCCAGTCCGCTTCTACCGGGCCCTGAGATCCT
 GCTGGGGCTGCCCTTCTGCGAGAAGGTGGACGTGTGGTCCCTGGGCTGCGTCATGGCTGAGCTGCACCTG
 GGCTGGCCTCTCTACCCGGCAACAACGAGTACGACCAGGTGCGCTACATCTGCGAAACCCAGGGCCTGC
 CCAAGCCACACCTGTTGCACGCCGCTGCAAGGCCACCCTTCTTCAAGCGCAACCCCAACCTGACGC
 TGCCAACCCCTGGCAGCTCAAGTCTCGGCTGACTACCTGGCCGAGACGAAGGTGCGCCCAATTGGAGCGC
 CGCAAGTATATGCTCAAGTCGTTGGACCAGATTGAGACAGTGAATGGTGGCAGTGTGGCCAGTCCGGCTAA
 CCTTCCCTGACCGGGAGGCGCTGGCGGAGCACGCCGACCTCAAGAGCATGGTGGAGCTGATCAAGCGCAT
 GCTGACCTGGGAGTCACACGAACGCATCAGCCCCAGTGTGCCCTGCGCCACCCCTTCGTGTCCATGCAG
 CAGTCCGCGAGTGCCACGAGACCAACCCACTACTACCAGCTCTGCTGCGCAGCTACCGCCCTCTCGCTG
 AAGTGGAGGGGAAGCCCCACGCCCTGTGGCCGCGAGAAGTGGGACCCCTACTACTGTCTGGCTGA
 GGAGAAGGAGGCTGCGGGTATGGGCAGTGTGGCCGCGCAGCAGCCCTTCTTCCGAGAGGAGAAGGACCA
 GGTATGCAAAGAGCCATCGACCAGCTGGATGACCTGAGTCTGCGAGGAGGTGGGCATGGGCTGTGGGGTG
 AGACCTGCACCAATGCGGTCTCCGACATGATGGTCCCCCTCAAGGCAGCCATCACTGGCCACCATGTGCC
 CGACTCGGGCCCTGAGCCATCTGGCCTTCTACAGCAGCCGCTGGCAGGCCGCCACAAGGCCCGCAAG
 CCACCTGCGGGTCCAAGTCCGACTCCAACCTCAGCAACCTATTGCGCTGAGCCAGGTCTCGCCTGAGG
 ATGACAGGCCCTGCCGGGCGAGCTGGGAGGAAGGAGAGCATCTCGGGCCTCTGCTGAGCCACTGGC
 CATCTGCAGCGAGATGAGGATGGGCCAACATTGACAACATGACCATGGAAGCTGAGAGGCCAGACCCCT
 GAGCTCTTCGACCCAGCAGCTGCTCTGGAGAATGGCTGAGTGAAGCCAGACTGCACCCTGGAGAGCGTCA
 GGGGCCACGGGCTCAGGGGCTCCACCCCGCCGCTCCACCAGCATGGTCCACCCCGGGGGGCCACCAG
 CTTCTCCAGCATGTCACCGGGCACCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205549 representing NM_144685
 Red=Cloning site Green=Tags(s)

MSTIQSETDCYDIEVLGKGTGFEVAKGWRRSTGEMVAIKILKNDAYRNRIKINELKLLHCMRGLDPEEA
 HVIRFLEFFHDALKFYLVFELLEQNLFEFQKENNFAPLPAHIRTVTLQVLTALARKELAIHADLKPE
 NIMLVDQTRCPFRVKVIDFGSASIFSEVRYVKEPYIQSRFYRAPEILLGLPFCEKVDVWSLGCVMAELHL
 GWPLYPGNNEYDQVRYICETQGLPKPHLLHAACKAHFFKRNPHDAANPWQLKSSADYLAETKVRPLER
 RKYMLKSLDQIETVNGGSVASRLTFPDREALAEHADLKSVMELIKRMLTWESHERISPSAALRHPFVSMQ
 QLRSAHETTHYYQLSLRSYRLSLQVEGKPPTPVVAEDGTPYYCLAEKEAAGMGSVAGSSPFFREEKAP
 GMQRAIDQLDDLSLQEAGHGLWGETCTNAVSDMMVPLKAAITGHHVPDSGPEPILAFYSSRLAGRHKARK
 PPAGSKSDSNFNLIRLSQVSPEDDRPCRGSSWEEGEHLGASAEPLAILQRDEDGPNIDNMTMEAPERD
 ELFDPSSPCGEWLESDPTLESVRGPRAQGLPPRRSHQHGPARGATSFLQHVTGHH

TRTRPLE – GFP Tag – V

Restriction Sites:

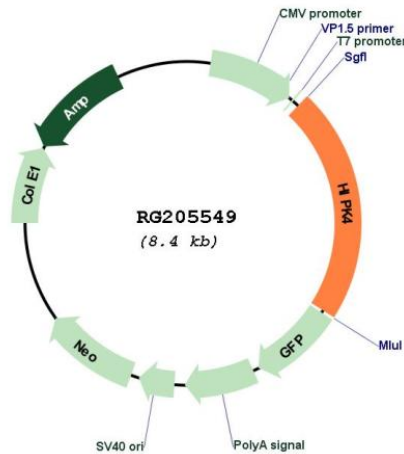
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_144685
 ORF Size: 1848 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:	<ol style="list-style-type: none">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_144685.3 , NP_653286.2
RefSeq Size:	2467 bp
RefSeq ORF:	1851 bp
Locus ID:	147746
UniProt ID:	Q8NE63
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the homeodomain interacting protein kinase (HIPK) family of proteins. While other members of this family are found throughout vertebrates, this member is present only in mammals. Compared to other members of this family, the encoded protein lacks a nuclear localization signal and a C-terminal autoinhibitory domain. The encoded protein exhibits kinase activity and may phosphorylate the tumor suppressor protein p53. [provided by RefSeq, Jul 2016]