

Product datasheet for **MR223735**

Hk3 (NM_001033245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hk3 (NM_001033245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hk3
Synonyms:	HK-III; HK III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223735 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCATTGGCCTTCTGGCCTGCATCCTGGAGAAAGAGCCTCAGTCTGCCACACAGGGCGTGC
 CAAGGCCCTCAGGTAGCTTAGAACTGGAATGCTTGCAGCAATCAAGGTGACCAGGACACAGTTGCAGCA
 GATCCAAGCCAGTCTCCTGTGCTCCATGGAGCAGGCACCTGAAGGGACAGGACAGTCCCGCTCCTTCTGTC
 CGGATGCTGCCACATACGTGAGGTCCACACCACGGCACCGAGCAAGGGGATTTCTGGTGTGGAGC
 TGGGGGCCACAGGAGCATCACTACGTGTGTTGTGGTAACACTGACAGGCACAAAGAATGCCGGTGGG
 GCCAGGAGCCGGGAGTTGTGATTCTCAAGAGGTGATCCTAGGTGCTGGCCAGCAGCTCTTTGACTTT
 GCTGCCGATGCCTCTGAATTCCTGGATGCATACCCCGTGGAGAATCAGGGTCTGAAGCTTGGTTCA
 ATTTCTCTTTCTTGTACCAGACAGGCTTGGACAGGAGCACCTCATTCTGGACAAAAGGTTTTAG
 GTGCAGCGCGTGAAGGCCAGGATGTGGTCCAGTTGCTAAGAGATGCCATTAGAGGCAGGGGACCTAC
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 CTAGGGCCAGTACTGACCACCTTCGACTCTGCCCTGGACCGGAGTCCCTGACTCCTGGTGTCAAAGGT
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 GGCCTTGACCTAGGGGGACCAACTTCCGGTCTGTGGTACGAGTGGCCAGGGCAGTGTGCAGATC
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 AGCCCCCTAGTGCACCGTACCTTTTTGCAGTCGGAGGATGGGTCTGGCAAAGGCGCAGCTTTGGTACT
 GCTGTTGCTTGTGCTTACCCAGATGGCCACGTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

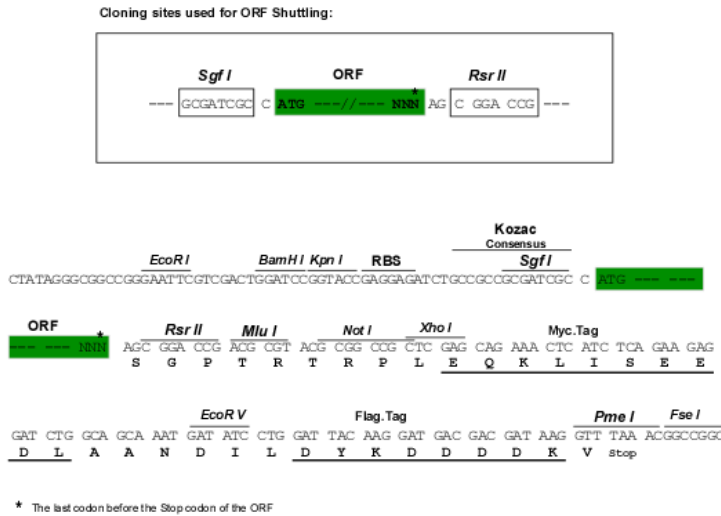
Protein Sequence: >MR223735 protein sequence
 Red=Cloning site Green=Tags(s)

MATIGPSGLHPGERASVCPHEGVPRPSGSL ELEC LQQFKVTRTQLQQIQASLLCSMEQALKGQDSPAPSV
 RMLPTYVRSTPHGTEQGDFLVLELGATGASLRVLWVTLTGTKECRVEPRSREFVIPQEVILGAGQQLFDF
 AARCLSEFLDAYPVENQGLKLGFNFSFPCHQTGLDRSTLISWTKGFRCSGVEGQDVVQLLRDAIQRQGT
 RIDVVAMVNDTVGTMGCELGTRPCEVGLIVDTGTNACYMEEARHVAALDEDRGRTCVSIEWGSFYDEDA
 LGPVLTTFDSALDRESLTPGAQRFKMI GGLYL GELVRLV L VHLTQHGV LFDGCASPALLSQGCILLDHV
 AEMEDTATGTARVHTILQDLGLSPRASDAELVQCVCVAVCTRAAQLCAAALAAVLSRLQHSREQTLQVA
 VATGGRVFERHPRFLRILKETVMLLAPNCDVSFIPSV DGGGRVAMVTA VAARLAAHRRILEETLAPFQL
 TLEQLTVVQAQMREAMIRGLQGEASSLRMLPTYVRATPDGSE RGDFLALDLGGTNFRVLLVRVAEGSVQI
 INQVYSIPECRAQSGQKLFDHIVDCIVDFQKRQGLSGQSLPLGFTFSFPCKQLGLDQGILLNWTGFNA
 SGCEGQDVVYLLREAIRRRQAVELNVVAIVNDTVGTMSCGYDDPRCEMGLIVGTGTNACYMEELRNVA
 VPGDSGLMCINMEWGAFGDDGSLGTLSPRFDTSDVQASINPGKQRFKMI SGMYLGEIVRHILLHLTNLG
 V LFRGQKTQCLQARDIFKTKFLSEIESDSLALRQVRAILEDLGLTLTSDDALMVLEVCQAVSRRAAQLCG
 AGVAAVVEKIRENRGLQELTVSVGVDGTL YKLHPHF SKLVSATVRKLAPQCTVTFLQSEDSGSGKAALVT
 AVACRLTQMAHV

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

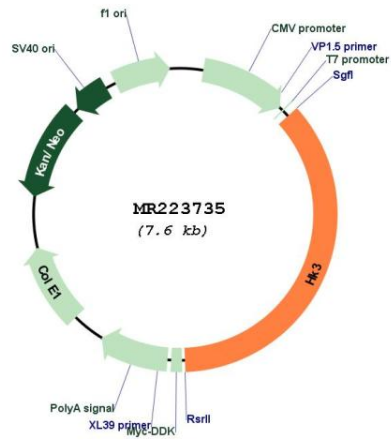


ACCN: NM_001033245

ORF Size: 2769 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_001033245.1 , NM_001033245.2 , NM_001033245.3 , NM_001033245.4 , NP_001028417.1
RefSeq Size:	3219 bp
RefSeq ORF:	2769 bp
Locus ID:	212032
UniProt ID:	Q3TRM8
Cytogenetics:	13 B1
MW:	100 kDa
Gene Summary:	Catalyzes the phosphorylation of hexose, such as D-glucose and D-fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D-fructose 6-phosphate, respectively). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223735