

Product datasheet for **MR204940**

Hsh2d (NM_197944) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hsh2d (NM_197944) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hsh2d
Synonyms:	ALX; Hsh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204940 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCCAGGAGGCTGCCCCACCACTACCTCCTCGGCTGGACTGGTTTGTGCACACCCAGGCGG
ACCTGCTAGCCCAATCCGGGATCCCCGAGTGGTTCATGGCACCATCTCCGAGAGGCTGCTGAGAACAT
GTTGGAGTCACAACCCCTGGGAACCTTTCTTATCCGAGTCAGCCACAGCCATGTGGGCTACACCCCTTCC
TACAAAGCCCAGACTTGCTGCCGTCACTTCATGGTAACTTTTCCAGGATGGGACTTGCACCTTCGCTG
GGGACCACATGACCCACGCCTCTCTGCATGCCCTGGTCACCTTCCACCAACAAAAGCCTATTCGGCCATT
CGGGGAGCTGTTGACCCAGGCCTGCGGGCAGGAGGATCCAGCAAACGTGGACTATGAAGATCTTCTCCTA
TACTCAAATGCCCTGGTTCAGGATGCTGAAAGCAATTTCTGAGAACGGAAGTTCAAAGGCTTCTTCTCT
GCCACCTGAGGAGGCTTCTGAAAGGAAGCCATCCACAACAATAAAGGAGAATTCGCATCAGCTTCTCTG
CTCCCCAAAGCCCTTTTCGAGGATTCTGGACAGAACTGTGGAAGAACCTGAGGTCCCTACCTCAGACT
AGCCAGAGGGTGAAACAGCAACTCACTTACACCTGTCCGCCATGAACCTGCTGGGGATGCCAGGCGAG
TGGCAGCAGCACCACAGCCCTGTGACTCGAGCATTAGTTGGGACAGTACTAGCCACTCCGAGGACCC
CTGTGCAGCCACCACGTCTTTCAAACCTGCAGAACCCAGGCCCTGAGAGGCAGAGAAGCCACCTTC
AGGGATCCAGGCCTGCCAGCTGGAGGAAGGCATTCTCAGGGATCAAAGCCTGGCGTGAAAGGTGGTAA
GGGCCCTGTAGCCAGGAGCCTGTGGACTTCCAGAAGCCAGGCTGGTTGCCTGAGGAATACCTTCC
ACCACCACCTTTCGCCCTGGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR204940 protein sequence
 Red=Cloning site Green=Tags(s)

MAEARRLPPPLPRLDWFVHTQADLLAQSGIPEWFHGTISREAAENMLESQPLGTFILRVSHSHVGYTLS
 YKAQTCCRHFVMVKLSEDGTCTFAGDHMTHASLHALVTFHQKPIRPFGELLTQACGQEDPANVDYEDLFL
 YSNALVQDAESQFLRTEVQRSSSCPPEEASERKPSTTTKGEFASASCSPKALFEDSGQKLWKNLRLSPQT
 SQRVKQQLTSHLSAMNLLGDARRVAQQHHSPVTRAFSWDSTSHSEDPCAATTSLQNPAAEPQALRGREATF
 RDSRPASWRKAFSGIKAWRGKVVRALSAQEPVDFPEAQGWLPPEYLPPPPFAPGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_197944

ORF Size: 1008 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_197944.1](#), [NP_922935.1](#)

RefSeq Size: 1225 bp

RefSeq ORF: 1005 bp

Locus ID: 209488

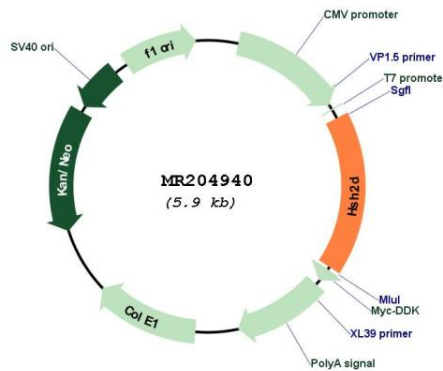
UniProt ID: [Q6VYH9](#)

Cytogenetics: 8 B3.3

MW: 37.4 kDa

Gene Summary: Adapter protein involved in tyrosine kinase and CD28 signaling (By similarity). May be a modulator of the apoptotic response through its ability to affect mitochondrial stability. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204940