

## Product datasheet for RC206816

### HSH2D (NM\_032855) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSH2D (NM_032855) Human 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:	>RC206816 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGAGGCCGGGAAGCTGCCCTACCGCTACCCACGGCTGGACTGGTTTGTGCACCCAGATGG  
GCCAGCTGGCCCAAGACGGGTCCCGAGTGGTCCATGGTGCAATCTCAAGAGAGGATGCTGAGAACTT  
GCTGGAGTCACAGCCACTGGGATCCTTTCTCATCAGGGTCAGTCACGCCATGTGGGCTACACACTCTCC  
TACAAAGCCCAAAGCAGCTGCTGCCATTCATGGTGAAGCTCTTGATGATGGGACTTTCATGATCCCCG  
GGGAGAAGGTGGCCACACCTCGCTGGACGCCCTGGTCACCTCCACCAGCAGAAGCCAATTGAGCCGCG  
CAGGGAGCTGCTGACACAGCCCTGCAGGCAGAAGGATCCCGCAAACGTGGATTACGAGGATCTTCTCTC  
TACTCCAACGCAGTGGCCGAGGAAGCTGCCTGCCCGGTGTCTGCCCTGAGGAGGCTCCCCAAAGCCAG  
TCCTGTGTACCAATCAAAGGAAAGGAAGCCGTGACGAGAGATGAACAGAATAACCACCAAGGAAGCCAC  
TTCTCTGCCCCCAAAATCCCCTCTTGAGAGACCCGCCAGAACTCTGGAGGAGCCTCAAAATGCTC  
CCCAGAGAGGCCAGAGGGTCCGGCAGCAGCTAAAAGCCACCTCGCCACTGTGAACTTGTCTGCTACTCT  
TGGATGTCCGGAGATCCACGGTGTCTCAGGCCCTGGGACCGGAAAAGGCAGCCAAGATCACTCAGGGGA  
TCCACCTCGGGGACAGAGGCTACACGGATCCCTGTGTGCCACATCTCTAAAAGCCCCTCACAGCCC  
CAGGCACAAAAGACAGAAAGTCCCCACCAGGAAGCCGAGAGGTCGGTCAGTCGATTGAGGTGACCC  
CAGGGGACAGGAGTTGGCACAAATGGTAGTGAGAGCCCTATCCTCCAGGAGTCCAAGCCAGAGCACCA  
GGGCTTGCGAGAGCTGAGAACGACCAGCTCCCGAGGAGTACCAACAACCGCCACCCCTTGCCCTGGG  
TACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC206816 protein sequence  
Red=Cloning site Green=Tags(s)

MTEAGKLPPLPPRLDWFVHTQMGQLAQDGVPEWFHGAI SREDAENLLESQPLGSFLIRVSHSHVGYTLS  
 YKAQSSCCHFVMKLLDDGTFMIPGEKVAHTSLDALVTFHQKPIEPRRELLTQPCRQKDPANVDYEDLFL  
 YSNAVAEEAACPVSAPEEASPKPVLCHQSKERKPSAEMNRITTKAATSSCPPKSPLETQKLRSLKML  
 PERGQVRQQLKSHLATVNLSSLLDVRRTVI SGPGTGKGSQDHSQDPTSGDRGYTDCVATSLKSPSQP  
 QAPKDRKVPTRKAERSVSCIEVTPGDRSWHQMVVRLSSQESKPEHQGLAEPENDQLPEEYQPPPFAPG  
 YC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6672\\_a06.zip](https://cdn.origene.com/chromatograms/mk6672_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_032855

**ORF Size:** 1056 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\\_032855.3](#)

**RefSeq Size:** 2403 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 84941

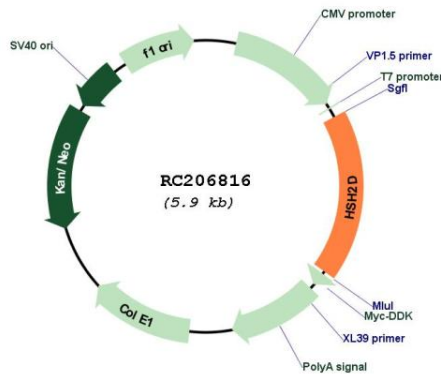
**UniProt ID:** [Q96JZ2](#)

**Cytogenetics:** 19p13.11

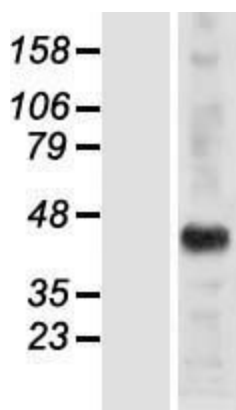
**MW:** 39 kDa

**Gene Summary:** T-cell activation requires 2 signals: recognition of antigen by the T-cell receptor (see TCR; MIM 186880) and a costimulatory signal provided primarily by CD28 (MIM 186760) in naive T cells. HSH2 is a target of both of these signaling pathways (Greene et al., 2003 [PubMed 12960172]).[supplied by OMIM, Mar 2008]

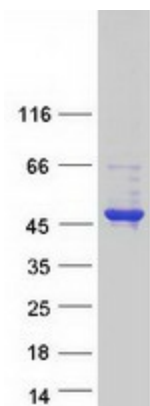
**Product images:**



Circular map for RC206816



Western blot validation of overexpression lysate (Cat# [LY409889]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206816 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSH2D protein (Cat# [TP306816]). The protein was produced from HEK293T cells transfected with HSH2D cDNA clone (Cat# RC206816) using MegaTran 2.0 (Cat# [TT210002]).