

## Product datasheet for RC237259

### HSH2D (NM\_001291274) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HSH2D (NM\_001291274) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HSH2D  
**Synonyms:** ALX; HSH2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237259 representing NM\_001291274  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGGGGAGTAGGATGTCCAGCCCCCGCAGTGTCTCCGAGAGCCCCAAAGCAGCTGCTGCCATTTCA  
TGGTGAAGCTCTTGGATGATGGGACTTTCATGATCCCCGGGAGAAGGTGGCCACACCTCGCTGGACGC  
CCTGGTCACCTTCCACCAGCAGAAGCCAATTGAGCCGCGCAGGGAGCTGCTGACACAGCCCTGCAGGCAG  
AAGGATCCCGCAAACGTGGATTACGAGGATCTCTTCTCTACTCCAACGAGTGGCCGAGGAAGCTGCCT  
GCCCGGTGTCTGCCCTGAGGAGCCTCCCCAAAGCCAGTCTGTGTACCAATCAAAGGAAAGGAAGCC  
GTCAGCAGAGATGAACAGAATAACCACCAAGGAAGCCACTTCTCTGCCCCCAAAATCCCCTCTTGGAG  
GAGACCCGCCAGAACTCTGGAGGAGCCTCAAAATGCTCCCCGAGAGAGGCCAGAGGGTCCGGCAGCAGC  
TAAAAGCCACCTCGCCACTGTGAATTTGTCGTCACCTTGGATGTCCGGAGATCCACGGTGATCTCAGG  
CCCTGGGACCCGAAAAGGCAGCCAAGATCACTCAGGGGATCCCACCTCGGGGACAGAGGCTACACGGAT  
CCCTGTGTGGCCACATCTCTCAAAGCCCCTCACAGCCCCAGGCCACCAAAAGACAGAAAGTCCCCACCA  
GGAAGGCCGAGAGGTGGTCACTGAGGTGACCCAGGGGACAGGAGTTGGACCAAAATGGTAGT  
GAGAGCCCTATCTCCCAGGAGTCCAAGCCAGAGCACCAGGGCTTGGCAGAGCCTGAGAACGACCAGCTC  
CCGGAGGAGTACCAACAACCGCCACCCTTTGCCCTGGTACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237259 representing NM\_001291274  
 Red=Cloning site Green=Tags(s)

MRGSRMSQPPQCLRRAQSSCCHFVVKLLDDGTFMIPGEKVAHTSLDALVTFHQKPIEPRELLTQPCRQ  
 KDPANVDYEDLFLYSNAVAEEAACPVSAPEEASPKPVLCHQSKERKPSAEMNRITTKTEATSSCPPKSPLG  
 ETRQKLWRSKMLPERGQVRVQQLKSHLATVNLSSLLDVRRTSTVISGPGTGKGSQDHSQDPTSGDRGYTD  
 PCVATSLKSPSQPQAPKDRKVPTRKAERSVSCIEVTPGDRSWHQMVVRLSSQESKPEHQGLAEPENDQL  
 PEEYQQPPPFAPGYC

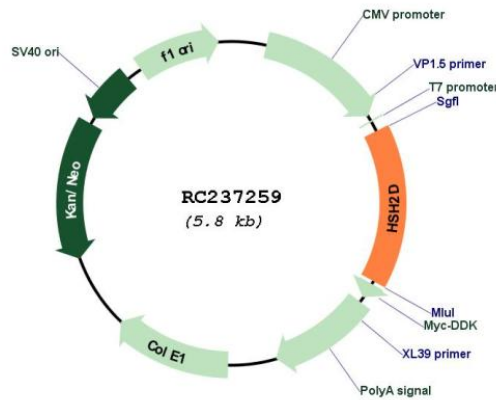
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291274

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291274.1</a> , <a href="#">NP_001278203.1</a>
<b>RefSeq Size:</b>	2936 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	84941
<b>UniProt ID:</b>	<a href="#">Q96JZ2</a>
<b>Cytogenetics:</b>	19p13.11
<b>MW:</b>	33.2 kDa
<b>Gene Summary:</b>	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]