

Product datasheet for **RG206816**

HSH2D (NM_032855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSH2D (NM_032855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HSH2D
Synonyms:	ALX; HSH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206816 representing NM_032855 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGAGGCCGGGAAGCTGCCCTACCGCTACCCACGGCTGGACTGGTTTGTGCACCCAGATGG
GCCAGCTGGCCCAAGACGGGTCCCGAGTGGTCCATGGTGCAATCTCAAGAGAGGATGCTGAGAACTT
GCTGGAGTCACAGCCACTGGGATCCTTTCTCATCAGGGTCAGTCACGCCATGTGGGCTACACACTCTCC
TACAAAGCCCAAAGCAGCTGCTGCCATTCATGGTGAAGCTCTTGATGATGGGACTTTCATGATCCCCG
GGGAGAAGGTGGCCACACCTCGCTGGACGCCCTGGTCACCTCCACCAGCAGAAGCCAATTGAGCCGCG
CAGGGAGCTGCTGACACAGCCCTGCAGGCAGAAGGATCCCGCAAACGTGGATTACGAGGATCTTTCCTC
TACTCAAACGCAGTGGCCGAGGAAGCTGCCTGCCCGGTGTCTGCCCTGAGGAGGCTCCCAAAGCCAG
TCCTGTGTACCAATCAAAGGAAAGGAAGCCGTGACGAGAGATGAACAGAATAACCACCAAGGAAGCCAC
TTCTCTGCCCCCAAAATCCCCTCTTGAGAGACCCGCGCAAACCTCTGGAGGAGCCTCAAAATGCTC
CCCAGAGAGGCCAGAGGGTCCGGCAGCAGCTAAAAGCCACCTCGCCACTGTGAACTTGTGCTCACTCT
TGGATGTCGGGAGATCCACGGTATCTCAGGCCCTGGGACCGAAAAGGCAGCCAAGATCACTCAGGGGA
TCCCACCTCGGGGACAGAGGCTACACGGATCCCTGTGTGCCACATCTCTAAAAGCCCCTCACAGCCC
CAGGGGACAGGAGTTGGACCAAATGGTAGTGAGAGCCCTATCCTCCAGGAGTCCAAGCCAGAGCACCA
GGGCTTGCGAGAGCTGAGAACGACCAGCTCCCGAGGAGTACCAACAACCGCCACCCCTTGCCCTGGG
TACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206816 representing NM_032855
 Red=Cloning site Green=Tags(s)

MTEAGKLPPLPPRLDWFVHTQMGQLAQDGVPEWFHGAISREDAENLLESQPLGSFLIRVSHSHVGYTLS
 YKAQSSCCHFVVKLLDDGTFMIPGEKVAHTSLDALVTFHQKPIEPRRELLTQPCRQKDPANVDYEDLFL
 YSNAVAEEAACPVSAPEEASPKPVLCHQSKERKPSAEMNRITTKAATSSCPPKSPLETROQKLWRSKML
 PERGQVRVQQLKSHLATVNLSSLLDVRRTSTVISGPGTGKGSQDHSGDPTSGDRGYTDPVATSLKSPSQP
 QAPKDRKVPTRKAERSVSCIEVTPGDRSWHQMVVRLSSQESKPEHQGLAEPENDQLPEEYQPPPFAPG
 YC

TRTRPLE - GFP Tag - V

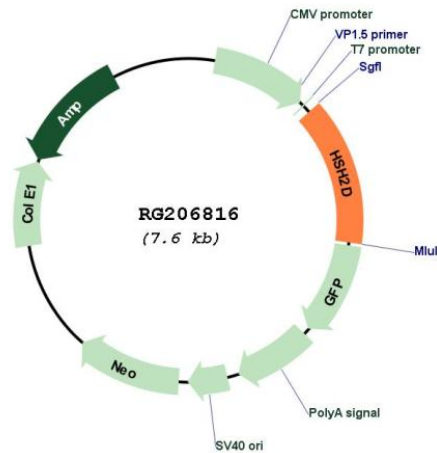
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_032855.3
RefSeq Size:	2369 bp
RefSeq ORF:	1059 bp
Locus ID:	84941
UniProt ID:	Q96JZ2
Cytogenetics:	19p13.11
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]