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Product datasheet for SC127080

HLAF (HLA-F) (NM_018950) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HLAF (HLA-F) (NM_018950) Human Untagged Clone
Tag:	Tag Free
Symbol:	HLAF
Synonyms:	CDA12; HLA-5.4; HLA-CDA12; HLAF
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018950, the custom clone sequence may differ by one or more nucleotides

ATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCC
ACTCCTTGAGGTATTTCAGCACCGCTGTGTCGCGGCCCGGCCGCGGGGAGCCCCGCTACATCGCCGTGGA
GTACGTAGACGACACGCAATTCCTGCGGTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAG
CCGTGGGTGGAGCAAGAGGGGCCGCAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGA
CTGACCGAGTGGCCCTGAGGAACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCA
GGGAATGAATGGCTGCGACATGGGGCCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGAC
GGCAAGGATTACATCTCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGATCA
CCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAGGAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGA
GTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTACAGCGCGCAGATCCTCCAAAGGCACACGTT
GCCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGA
TCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAGCTTGTGGAGACCAGGCCTGC
AGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTCCTGGAGAGGAACAGAGATACACATGC
CATGTGCAGCACGAGGGGCTGCCCCAGCCCCTCATCCTGAGATGGGAGCAGTCTCCCCAGCCCACCATCC
CCATCGTGGGCATCGTTGCTGGCCTTGTTGTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTCGCTGCTGT
GATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018950 unedited
GTCAACTTTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGTCATGGCGC
CCCGAAGCCTCCTCCTGCTGCTCTCAGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTC
CCACTCCTTGAGGTATTTCAGCACCGCTGTGTCGCGGCCCGGCCGCGGGGAGCCCCGCTA
CATCGCCGTGGAGTACGTAGACGACACGCAATTCCTGCGGTTCGACAGCGACGCCGCGAT
TCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAAGAGGGGCCGCAGTATTGGGAGTG
GACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGGAACCTGCT
CCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGA
CATGGGGCCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGA
TTACATCTCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGAT
CACCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAGGAGTTCAGGACCTACCTGGAGGG
CGAGTGCCTGGAGTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTACAGCGCGC
AGATCCTCCAAAGGCACACGTTGCCCACCACCCCATCTCTGACCATGAGGCCACCCTGAG
GTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGA
GGAACAGACCCAGGACACAGAGCTTGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCA
GAATGGGCCGCTGTGGTGGTGGCTTCTGGAGAGGACAGAGATCACTGCCTGTGCACACGA
GGGCTGCCCAGCCCTATNCTGGATGGGACAGTCTCCCAGCCACATCCCATGTGGGCTTGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018950 unedited
CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTATAAAAAGAATATTTTTATTCTT
TATTTTTAAAATTTATGTATGTTCGTGAGGCACAAGTGCAATTCTGCTACATTGATACCT
TGCTTCTCAGTCCCACACAAGGAAGCTGTCTCACACTGCAGCCTGAGAGTAGCTCCCTCT
GTTTCTATCTGAGCTCTTCTTCCTCCACATCACAGCAGCGACCACAGCTCCAGTGACCAC
AGCTCCAAGGACAACAAGGCCAGCAACGATGCCCACGATGGGGATGGTGGGCTGGGGAGA
CTGCTCCCATCTCAGGATGAGGGGCTGGGGCAGCCCCTCGTGCTGCACATGGCATGTGTA
TCTCTGTTCCTCTCCAGAAGGCACCACCACAGCGGCCCACTTCTGGAAGGTTCCATCCCC
TGCAGGCCTGGTCTCCACAAGCTCTGTGTCCTGAGTCTGTTCCTCCCCATCCCGCTGCCA
GGTCAGCGTGATCTCCGCAGGGTAGAAGCCCAGGGCCCAGCACCTCAAGGTGGCCTCATG
GTCAGAGATGGGGTGGTGGGCAACGTGTGCCCTTGAGGATCTGCGCGCTGTAACGTCTCC
CTTCCATTCTCCAAGTATCTGCGGAGCAACTCCAGGCACTCGCCCTCCAGTAAGTCCTGA
ACTCCTCTGCTTATTTCTCTGCCTCATAGAAACCGCTGGTGATCTGAGCCACGGTGTCCG
CCGCGGTCCAGGAGCGCAGTCCTCGTCAAGGAATGTATCCTTGCCGCGTACCGTGCTGTG
ATACCCGCGAGGAGCGTTCGTGGGCCCATGTGCACCATTCTCCCTGGAGGTGGAAACCAC
CCCCTTCTGTTGTACCGCGGACAGTTCCTAGGCCCTCGGACATTGGCGTGGCCTTCGTAC
CTGGGGCCCTCCAAATGGGCCCCTTGGCTCCACAGTTCCGGTTCCTTCGGATCGCGGTGG

Restriction Sites: NotI-NotI

ACCN: NM_018950

Insert Size: 1140 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_018950.1, NP_061823.1
RefSeq Size:	1188 bp
RefSeq ORF:	1089 bp
Locus ID:	3134
UniProt ID:	P30511
Cytogenetics:	6p22.1
Domains:	MHC_I, ig, IGc1
Protein Families:	Transmembrane
Protein Pathways:	Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Type I diabetes mellitus, Viral myocarditis

Gene Summary: This gene belongs to the HLA class I heavy chain paralogues. It encodes a non-classical heavy chain that forms a heterodimer with a beta-2 microglobulin light chain, with the heavy chain anchored in the membrane. Unlike most other HLA heavy chains, this molecule is localized in the endoplasmic reticulum and Golgi apparatus, with a small amount present at the cell surface in some cell types. It contains a divergent peptide-binding groove, and is thought to bind a restricted subset of peptides for immune presentation. This gene exhibits few polymorphisms. Multiple transcript variants encoding different isoforms have been found for this gene. These variants lack a coding exon found in transcripts from other HLA paralogues due to an altered splice acceptor site, resulting in a shorter cytoplasmic domain. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) uses an alternate 3' exon, compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.