

Product datasheet for **SC123711**

HLAF (HLA-F) (BC009260) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HLAF (HLA-F) (BC009260) Human Untagged Clone
Tag: Tag Free
Symbol: HLA
Synonyms: CDA12; HLA-5.4; HLA-CDA12; HLAF
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene sequence for BC009260 edited

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GGCACGAGGAAAAGTCCCACGCACCCCGCGGACTCATATTTTTCCAGACGCGGAGGTTG
GGGTCATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATA
CTTGGGAGGCTCCCACTCCTTGAGGTATTTAGCACCCTGTGTGCGGCCCGGCCGCG
GGGAGCCCCGCTACATCGCCGTGGAGTACGTAGACGACACGCAATTCCTGCGTTTCGACA
GCGACGCCGCGATTCCGAGGATGGAGCCGCGGAGCCGTGGTGGAGCAAGAGGGGCCG
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TGAAATGGCTGCGACATGGGGCCCGACGGACGCCTCCTCCGCGGTATCACCAGCACGCT
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AGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCTGG
AGCGGGATGGGGAGGAACAGACCAGGACACAGAGCTTGTGGAGACCAGGCTGCAGGGG
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CATGCCATGTGCAGCACGAGGGGCTGCCACGCCCTCATCCTGAGATGGGAGCAGTCTC
CCCAGCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTGTCTTGGAGCTGTGG
TCACTGGAGCTGTGGTCTGCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAG
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GGTCAAGCTTATTTCTCCTGGGGTGTCTTCCAAGGATATTTGGGCTGCCTCCGGAGTC
ACAGTGTCTTGGGCCCGCGAAGGTGGGTGACATGTGGATCTTGTTTTTTTTGTGGCTGT
GGACATCTTCAACTGCCTTCTTGGCCTTGCAAAGCCTTCGCTTTGGCTTCGGCTTAA
GGAGGGGAGGAGCTTCTTCTCGTTCTTGGCACCATCTATGAAAAGGTCAGATTA
AGATTTTTGACTGAGTCATTCTAAAGTAAGTTGCAAGACCATGATACTAGACCTAAA
TACTTCATCACACCTCCTAAGAATAAGAACCAACATTATCACACCAAAGAAAATAAAT
AATTCCATAATATTAATAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC009260 unedited AAAAACCCCTGCGTATTTGTAAACTTTTCATATAGGCGGCACGCGAATTCGCACGAGGNAAA GTCCCACGCACCCCGCGGGACTCATATTTTTCCAGACGCGGAGGTTGGGGTCATGGCGC CCCGAAGCCTCCTCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCAGGCT CCCACTCCTTGAGGTATTTACAGACCCGCTGTGTGCGGGCCCGCCGCGGGGAGCCCCGCT ACATCGCCGTGGAGTACGTAGACGACACGCAATTCCTGCGGTTGACAGCGACGCGCGCA TTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAAGAGGGGCCGAGTATTGGGAGT GGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGGAACCTGC TCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGAATGAATGGCTGCG ACATGGGGCCCGACGACGCCTCTCCGCGGTATCACCAGCACGCTACGACGGCAAGG ATTACATCTCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGGACACCGTGGCTCATA TCACCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAGGAGTTCATGACCTACCTGGAGG GCGAGTGCCTGGAGTTGCTCCGAGATACTTGGAGAATGGGAAGGAGACGCTACAGCGCG CAGATCTCCAAAGGCACACGTTGCCACCACCCATCTCTGACCATGAGGCCACCCTGA GGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCCGGCAACGGGGTGGAG AGG
Restriction Sites:	Please inquire
ACCN:	BC009260
Insert Size:	1532 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>BC009260.1</u> , <u>AAH09260.1</u>
RefSeq Size:	1532 bp
Locus ID:	3134
Cytogenetics:	6p22.1
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]