

Product datasheet for RC205909

HHLA2 (NM_007072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HHLA2 (NM_007072) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HHLA2
Synonyms:	B7-H5; B7-H7; B7H7; B7y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205909 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCACAGACAGCACTGTCTTTCTCCTCATTCTCATAACATCTCTGAGTGGATCTCAAGGCATAT
TCCCTTTGGCTTCTTCATTTATGTTTCTATGAATGAACAAATCGTCATTGGAAGACTTGATGAAGATAT
AATTCTCCCTTCTTCATTTGAGAGGGGATCCGAAGTCGTAATACACTGGAAGTATCAAGATAGCTATAAG
GTTTCATAGTTACTACAAAGGCAGTGACCATTTGGAAAGCCAAGATCCCAGATATGCAAACAGGACATCCC
TTTTCTATAATGAGATTCAAAATGGGAATGCGTCACTATTTTTTTCAGAAGAGTAAGCCTTCTGGACGAAGG
AATTTACACCTGCTATGTAGGAACAGCAATTCAAGTGATTACAAACAAAGTGGTGCATAAAGTGGGAGTT
TTTCTCACACCCGTGATGAAGTATGAAAAGAGGAACACAAACAGCTTCTTAATATGCAGCGTGTTAAGTG
TTTATCCTCGTCCAATTATCACGTGAAAATGGACAACACACCTATCTCTGAAAACAACATGGAAGAAAAC
AGGGTCTTTGGATTCTTTTTCTATTAACAGCCCACTGAATATTACAGGATCAAAATTCATCTTATGAATGT
ACAATTGAAAATTCAGTCTGAAGCAACATGGACAGGGCGTGGACGATGAAAGATGGCCTTCATAAAA
TGCAAAGTGAACACGTTTCACTCTCATGTCAACCTGTAATGATTATTTTTACCAAACCAAGACTTCAA
AGTTACTTGGTCCAGAATGAAAAGTGGGACTTTCTCTGCTGGCTTACTATCTGAGCTCCTCACAAAAT
ACAATTATCAATGAATCCCGATTCTCATGGAACAAAGAGCTGATAAACCAGAGTGACTTCTCTATGAATT
TGATGGATCTTAATCTTTTCAGACAGTGGGAATATTTATGCAATATTTCTCGGATGAATATACTTTACT
TACCATCCACACAGTGCATGTAGAACCGAGCCAAGAAAACAGCTTCCCATAACAAAGGCTTATGGATTTTG
GTGCCCTCTGCGATTTTGGCAGCTTTTCTGCTGATTTGGAGCGTAAAATGTTGCAGAGCCAGCTAGAAG
CCAGGAGGAGCAGACACCCTGCTGATGGAGCCCAACAAGAAAGATGTTGTGTCCCTCCTGGTGAGCGCTG
TCCAGTGCACCCGATAATGGCGAAGAAAATGTGCCTCTTTCAGGAAAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205909 protein sequence
Red=Cloning site Green=Tags(s)

MKAQTALSFLLILITSLSGSQGIFPLAFFIYVPMNEQIVIGRLDEDIILPSSFERGSEVVIHWKYQDSYK
VHSYYKGS DHLESQDPRYANRTSLFYNEIQNGNASLFFRRVSLLEDEGIYTCYVGTAIQVITNKVVLKVG
FLTPTVMKYEKRTNSFLICSVLSVYPRPIITWKMDNTPISENNMEETGSLDSFSINSPLNITGSNSSYEC
TIENSLKQWTWGRWTKDGLHKMQSEHVSLSCQPVNDYFSPNQDFKVTWSRMKSGTFSVLAYLSSSQN
TIINESRFSWNKELINQSDFSMNLMDLNLSDSGEYLCNIISSDEYLLTIHTVHVEPSQETASHNKGLWIL
VPSAILAAFLLIWSVKCCRAQLEARRSRHPADGAQQERCCVPPGERCPSAPDNGENVPLSGKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6551_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_007072

ORF Size: 1242 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_007072.2](#), [NP_009003.1](#)

RefSeq Size: 2679 bp

RefSeq ORF: 1245 bp

Locus ID: 11148

UniProt ID: [Q9UM44](#)

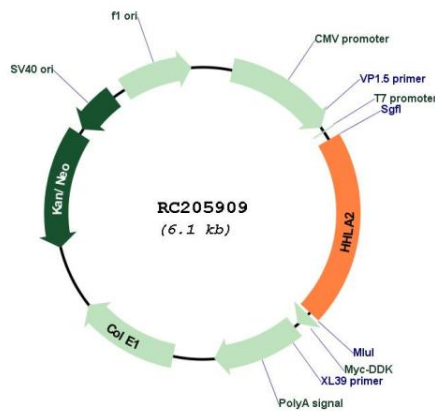
Cytogenetics: 3q13.13

Protein Families: Transmembrane

MW: 46.9 kDa

Gene Summary: This gene encodes a protein ligand found on the surface of monocytes. The encoded protein is thought to regulate cell-mediated immunity by binding to a receptor on T lymphocytes and inhibiting the proliferation of these cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC205909