

Product datasheet for **RG205909**

HHLA2 (NM_007072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HHLA2 (NM_007072) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HHLA2
Synonyms:	B7-H5; B7-H7; B7H7; B7y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205909 representing NM_007072 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCACAGACAGCACTGTCTTTCTCCTCATTCTCATAACATCTCTGAGTGGATCTCAAGGCATAT
TCCCTTTGGCTTTCTTCATTTATGTTTCCTATGAATGAACAAATCGTCATTGGAAGACTTGATGAAGATAT
AATTCTCCCTTCTTCATTTGAGAGGGGATCCGAAGTCGTAATACACTGGAAGTATCAAGATAGCTATAAG
GTTTCATAGTTACTACAAAGGCAGTGACCATTTGGAAAGCCAAGATCCCAGATATGCAAACAGGACATCCC
TTTTCTATAATGAGATCAAAATGGGAATGCGTCACTATTTTTTTCAGAAGAGTAAGCCTTCTGGACGAAGG
AATTTACACCTGCTATGTAGGAACAGCAATTCAAGTGATTACAAACAAAGTGGTGCATAAAGTGGGAGTT
TTTCTCACACCCGTGATGAAGTATGAAAAGAGGAACACAAACAGCTTCTTAATATGCAGCGTGTTAAGTG
TTTATCCTCGTCCAATTATCACGTGGAAAATGGACAACACACCTATCTCTGAAAACAACATGGAAGAAAAC
AGGGTCTTTGGATTCTTTTTCTATTAACAGCCCACTGAATATTACAGGATCAAAATTCATCTTATGAATGT
ACAATTGAAAATTCACCTGCTGAAGCAACATGGACAGGGCGCTGGACGATGAAAGATGGCCTTCATAAAA
TGCAAAGTGAACACGTTTCACTCTCATGTCAACCTGTAATGATTATTTTTTACCACAAACCAAGACTTCAA
AGTTACTTGGTCCAGAATGAAAAGTGGGACTTTCTCTGTCCTGGCTTACTATCTGAGCTCCTCACAAAAT
ACAATTATCAATGAATCCCGATTCTCATGGAACAAAGAGCTGATAAACCAGAGTGACTTCTATGAATT
TGATGGATCTTAATCTTTTCAGACAGTGGGGAATTTTATGCAATATTTCTCGGATGAATATACTTTACT
TACCATCCACACAGTGCATGTAGAACCGAGCCAAGAAAACAGCTTCCCATAACAAAGGCTTATGGATTTTG
GTGCCCTCTGCGATTTTGGCAGCTTTTCTGCTGATTTGGAGCGTAAAATGTTGCAGAGCCGACTAGAAG
CCAGGAGGAGCAGACACCCTGCTGATGGAGCCCAACAAGAAAGATGTTGTGCCCTCCTGGTGAGCGCTG
TCCAGTGCACCCGATAATGGCGAAGAAAATGTGCCTCTTTCAGGAAAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205909 representing NM_007072
 Red=Cloning site Green=Tags(s)

MKAQTALSFFLILITSLSGSQGIFPLAFFIYVPMNEQIVIGRLDEDIILPSSFERGSEVVIHWKYQDSYK
 VHSYYKGSDDLHESQDPRYANRTSLFYNEIQGNASLFFRRVSLLDDEGIYTCYVGTAIQVITNKVVLKVG
 FLTPVMKYEKRTNSFLICSVLSVYPRPIITWKMDNTPISENNMEETGSLDSFSINSPLNITGSNSSYEC
 TIENSLKQWTWGRWTMKDGLHKMQSEHVSLSCQPVNDYFSPNQDFKVTWSRMKSGTFVLAAYLSSQN
 TIINESRFSWNKELINQSDFSMNLMDLNLSDSGEYLCNIISSDEYLLTIHTVHVPEPSQETASHNKGLWIL
 VPSAILAAFLLIWSVKCCRAQLEARRSRHPADGAQQERCCVPPGERCPSAPDNGENVPLSGKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 2689 bp

RefSeq ORF: 1245 bp

Locus ID: 11148

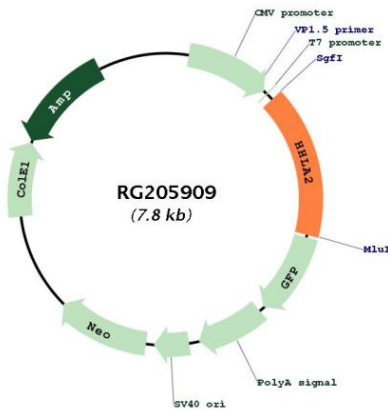
UniProt ID: [Q9UM44](#)

Cytogenetics: 3q13.13

Protein Families: Transmembrane

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 RG205909