

Product datasheet for **RG209536**

KHDC4 (NM_014949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KHDC4 (NM_014949) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KHDC4
Synonyms:	BLOM7; KIAA0907; SNORA80EHG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209536 representing NM_014949
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCGGGGAGCGGACACATCCTGGAGCTGGCGGGCGCCGAGCAAATGGGACCAACCAGCTCCAG
 CCCCACTTCTCTTCTCCCGCCAGCGGCCCCAGGTGGGGAGGTACACAGCAGTGGGGGAAGTCCTGGGGG
 CACCACAGCTGCTCCTTCAGGAGCCTTGATGCTGCTGCTGTGGCTGCCAAGATTAATGCCATGCTC
 ATGGCAAAAGGGAAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAGCCTAA
 CTAGCAATAAAAGCAAGGATGACCTGGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTCACATGTAG
 GAACTTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGGGCTGCAGTATCAACTCGA
 GGGAGGTTTCATGACAACAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATATCTTCATGTTT
 AGGGCCAGACACGGGAATTAGTGGACAGAGCTGTAACCGGATCAAAGAAATTATACCAATGGAGTGGT
 AAAAGCTGCCACAGGAACAAGTCCAACCTTTAATGGTGAACAGTAAGTGTCTATCACCAGCCAGCACCC
 ATCGCTCAGTTGTCTCCAGCTGTAGCCAGAAGCCTCCCTCCAGTCAGGGATGCATTATGTTCAAGATA
 AATTATTTGTGGGTCTAGAACATGCTGTACCCACTTTTAAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTG
 CTCCTATTTGCAGCACATTGAGATTGAAACAGGTGCCAAAGTCTTCTGCGGGGCAAAGGTTGAGGCTGC
 ATTGAGCCAGCATCTGGCCGAGAAGCTTTTGAACCTATGTATATTTACATCAGTCACCCCAAACAGAAAG
 GCCTGGCTGCTGCCAAGAAGCTTTGTGAGAATCTTTGCAACAGTTCATGCTGAATACTCTAGATTTGT
 GAATCAGATTAATACTGCTGTACCTTTACCAGGCTATACACAACCTCTGCTATAAGTAGTGTCCCTCCT
 CAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTACCCTGTTGTTCCCTCCTCAGCAGCCAG
 TTCAACCTCCCTACGGAGTACCAAGCATAGTGCCACCAGCTGTTTCATTAGCACCTGGAGTCTTGCCGGC
 ATTACCTACTGGAGTCCCACCTGTGCCAACACAATACCGGATAACACAAGTGCAGCCTCCAGCTAGCACT
 GGACAGAGTCCGATGGGTGGTCTTTTATTCTGCTGCTCCTGTCAAACTGCCTTGCTGCTGGCCCCC
 AGCCCCAGCCCCAGCCCCAGCCCCACTCCCAAGTCAGCCCCAGGCACAGAAGAGACGATTACAGAGGA
 GCTACCAGATGAACGGGAATCTGGACTGCTTGGATACCAGCATGGACCCATTATGACTAATTTAGGT
 ACAGGCTTCTCCAGTCAGAATGAGATTGAAGGTGCAGGATCGAAGCCAGCAAGTTCCTCAGGCAAAGAGA
 GAGAGAGGGACAGGCAGTTGATGCCTCCACCAGCCTTTCAGTGACTGGAATAAAACAGAGTCCGATGA
 AAGGAATGGGTCTGGGACCTTAACAGGGAGCCATGATTATCCAGCCAAGAAGATGAAACTACAGAGAAG
 GGATTTGGCTTGGTGGCTTATGCTGCAGATTATCTGATGAAGAGGAGGAACATGGAGGTCATAAAATG
 CAAGTAGTTTTCCACAGGCTGGAGTTTGGGATACCAATATCCTTCATCACACCACGAGCTAAACAACA
 GATGCCATTCTGGATGGCTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209536 representing NM_014949
 Red=Cloning site Green=Tags(s)

MSAGSATHPGAGRRSKWDQPAPAPLLFLPPAAPGGEVTSGGSPGGTTAAPSGALDAAAABAANINAML
 MAKGKLKPTQNASEKLQAPGKGLTSNKSDDLVAEVEINDVPLTCRNLLTRGQTQDEISRLSGAAVSTR
 GRFMTTEEKAKVGPDRPLYLHVQGTRELVDRAVNRIKEIITNGVVKAATGTSPTFNQATVTVYHQAP
 IAQLSPAVSQKPPFQSGMHYVQDKLFVGLHAVPTFNVKEKVEGPGCSYLQHIQIETGAKVFLRGKSGC
 IEPASGREAFEPYIYISHPKPEGLAAAKKLCENLLQTVHAEYSRFVNQINTAVPLPGYTQPSAIISSVPP
 QPPYYPSNGYQSGYPVPPPPQPPVQPPYGVPSIVPPAVSLAPGVLPALPTGVPPVPTQYPITQVQPPAST
 GQSPMGGPFIAPAPVKALPAGPQPQPQPPLPSQPQAQKRRFTEELPDERESGLLGYPHPIHMTNLG
 TGFSSQNEIEGAGSKPASSSGKERERDRQLMPPPAFPVTVGIKTESDERNGSGTLTGSHDYPAKMKMTEK
 GFGLVAYAADSDEEEHGGHKNASSFPQWLSLGYQYPSSQPRAKQMPFWMAP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014949

ORF Size: 1842 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_014949.4](#)

RefSeq Size: 2960 bp

RefSeq ORF: 1845 bp

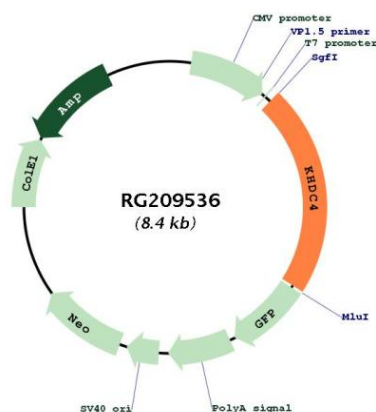
Locus ID: 22889

UniProt ID: [Q7Z7F0](#)

Cytogenetics: 1q22

Gene Summary: RNA-binding protein involved in pre-mRNA splicing (PubMed:19641227). Interacts with the PRP19C/Prp19 complex/NTC/Nineteen complex which is part of the spliceosome (PubMed:19641227). Involved in regulating splice site selection (PubMed:19641227). Binds preferentially RNA with A/C rich sequences and poly-C stretches (PubMed:23144703). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209536