

Product datasheet for **RG206258**

KLHDC8A (NM_018203) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLHDC8A (NM_018203) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHDC8A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206258 representing NM_018203 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGCCTAACGTCAAGGACTTCCAGTGAAGCGCCTGGCGCCACTGCCAGCCGCCGGTCTACT
GCTCCCTGCTGGAGACCGGGGCCAGGTCTATGCCATCGGGGATGTGACGACAACGGCGTCCCATGGA
CTGCTTCGAGGTCTACTCCCCGGAGGCCGACAGTGGACCGCCTTGCCCCGGCTGCCACAGCACGGGCG
GGGTGGCCGTCACCGCCCTGGGAAGCGGATCATGGTATTGGGGCGTGGCACCAATCAGTGCCCC
TGAAGTCTGGAGATGTACAACATCGATGAGGGCAAGTGAAGAAGAGGAGCATGCTGCTGAGGCCCG
CATGGGCATTTCTGTACGGCCAAAGATTACCGAGTATATGCGGCAGCGGGATGGGCCTGGACCTACGT
CCACACAACCACCTCCAACACTATGACATGCTGAAGGACATGTGGTGTCCCTAGCACACATGCCACCC
CGAGATATGCTGCCACCTCCTTCTCCGAGGCTCCAAGATCTACGTGCTGGGGGACGACAGTCCAAGTA
CGCGGTCAACGCTTTCGAGGTCTTTGACATCGAGACTCGCTCCTGGACCAAGTTTCCAACATTCCTAT
AAGCGGGCCTTCCAGCTTTGTGACCCTGGACAACCCTTGTACAGCCTAGGAGCCTGCGCAAGGTC
GCCTCTACCGGCAGCCAAAGTTCCTGCGGACGATGGACGTGTTGACATGGAACAGGGGGATGGCTGAA
GATGGAACGATCGTTCTTCTCAAGAAGCGCGGGCAGATTTTGTGGCTGGCTCTCTGAGTGGACGGGTC
ATAGTGGCTGGGGACTTGGGAATCAACCCACTGTCCTGGAGACGCGGAAGCATTCCACCCAGGAAGA
ACAAATGGGAGATCCTCCCTGCCATGCCACACCCCGCTGTGCCTGCTCCAGCATAGTCGTAAGAAGT
CCTCCTCGCCGTGGGAGGTGTCAACCAGGTCTGAGTGACGACAGTGGAGGCCCTGTGTCTCTGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206258 representing NM_018203
 Red=Cloning site Green=Tags(s)

MEVPNVKDFQWKRLAPLPSRRVYCSLLETGGQVYAIGGCCDDNGVPMDCFEVYSPEADQWTALPRLPTARA
 GVAVTALGKRIMVIGGVGTNQLPLKVVEMYNIDEGKWKRSMLREAAMGISVTAKDYRVYAAGGMGLDLR
 PHNHLQHYDMLKDMWVSLAHMPTPRYAATSFLRGSKIYVLGGRQSKYAVNAFEVFDIETRSWTKFPNIPY
 KRAFSSFVTLDNHLYSLGGLRQGRLYRQPKFLRTMDVFDMEQGGWLKMERSFFLKKRRADFVAGSLSGRV
 IVAGGLGNQPTVLETAFAHPGKNKWEILPAMPTPRCACSSIVVKNCLLAVGGVNQGLSDAVEALCVSDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018203

ORF Size: 1050 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018203.1](#), [NP_060673.1](#)

RefSeq Size: 2500 bp

RefSeq ORF: 1053 bp

Locus ID: 55220

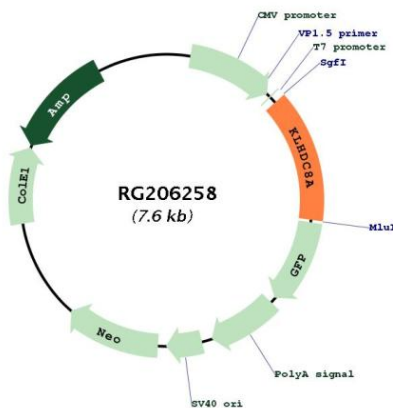
UniProt ID: [Q8IYD2](#)

Cytogenetics: 1q32.1

Domains: Kelch

Gene Summary: This gene encodes a kelch domain-containing protein which is upregulated in cancer. Upregulated expression of the encoded protein may provide an alternative pathway for tumors to maintain aggressiveness in the absence of epidermal growth factor receptor dependence. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RG206258