

Product datasheet for **RG229072**

KDM3A / JHDM2A (KDM3A) (NM_001146688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM3A / JHDM2A (KDM3A) (NM_001146688) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM3A
Synonyms:	JHDM2A; JHMD2A; JMJD1; JMJD1A; TSGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229072 representing NM_001146688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTCACGCTCGGAGAAAGTTGGCCGGTATTGGTGGGGAGGAGTTTCTCAGTCTGTCCGACGCC
ACGGCAGCGATGGCAGCCACGACAGCTGGGACGTGGAGCGCGTCGCCGAGTGGCCCTGGCTCTCCGGGAC
CATTTCGAGCTGTTCCACACCGACGTTACCAAGAAGGATCTGAAGGTGTGTGGAATTTGATGGGGAA
TCTTGGAGAAAAGAAGATGGATAGAAGTCTACAGCCTTCTAAGGAGAGCATTTCAGTAGAACATAATT
TGGTTTTAGCTGAACGAAAGTCACCTGAAATTTCTGAACGAATTGTACAGTGGCCTGCAATAACGTACAA
ACCTCTGTTGGACAAAGCTGGTTTTGGGATCCATAACTTCTGTTCCGCTTTCTGGGAGATCAACAAAGAGTA
TTCTTTCTAAAGACCTTTTGAAGCCTATACAGGATGTAACAGTCTTCGACTTTCTTTACGGATAATC
AGATTGTCAGTAAAGAATTTCAAGCTTTGATTGTGAAGCATTAGATGAAAGCCATCTTTTAAAAGGTGA
CAAAAACCTTAGTTGGTTCAGAAGTAAAAATTTATAGCTTGGACCCATCTACTCAGTGGTTTTTCAGCAACC
GTTATAAATGGAACCCAGCATCAAAAACCTTTCAAGTCAACTGTGAGGAGATCCAGCACTGAAAATTG
TTGATCCGTCAGTATTCATGTTGAAGTTGTACACGATAACCTTGTGACATGTGGTAATTTCTGCAAGAAT
TGGAGCTGTAACGCAAGTCTTCTGAGAATAATGGAACCCTGGTTTTCAAACAAGCAAAATCTTGCTCT
GAGGCCCTCCCAGTATGTGTCCTGTGCAGTCTGTACCTACAACAGTTTTTAAGGAGATACTGCTTGCT
GTACTGCGGCAACTCCACTAGTAAGGACCCAAGACAGCAAAGTACTCCCAGGCTGCCAACTCTCCACC
TAACCTTGGAGCAAAAATTCCTCAAGGATGTCATAAAACAAGTTTACCAGAGGAAATTTCTTCTGTCTA
AATACAAAGTCTGAAGCTCTGAGAACAAAACCAGATGTCTGCAAAGCAGGGTTGCTCTCAAAGTCTCTC
AGATTGGAAGTGGAGACTTGAATTTCTGACTGAGCCAAAAGGCAGCTGTACTCAGCCTAAGACAAAACAC
TGATCAGGAAAACAGATTGGAGTCTGTTCCACAAGCATTGACTGGCCTTCTAAGGAGTGCTTACCTACA
AAGGCTTCTTCTAAGGCAGAATTGGAATTTGCCAATCCTCCTGAACTGCAGAAGCACCTAGAACATGCAC
CTTCCCACATCGGATGTTTCAAATGCACCAGAAGTGAAGCAGGTGCAATAGTGATAGCCCTAATAACTG
TTCAGGAAAAAAGGTAGAACCTTCAGCTTTAGCTTGCCGATCACAGAATTTAAAGGAATCTTCAGTAAAA



[View online »](#)

GTAGATAATGAAAGCTGTTGTTCAAGAAGCAACAATAAAATCCAGAATGCCCATCCAGGAAGTCGGTTT
TGACAGACCCAGCTAAACTCAAAAAGCTGCAACAGAGTGGCGAGGCCCTTCGTACAGGATGATTCTTGTGT
GAACATCGTGGCACAGTTGCCTAAATGCCGAGAGTGTGCGTTGGACAGTCTCCGCAAGGATAAAGGAGCAA
CAGAAGGACTCACCTGTGTTTTGCCGCTCTTTCACTTCAGGAGGTTACAATTCAACAAACATGGTGTGT
TGCGGGTAGAAGGCTTCTTAACACCAACAAGTATGACAATGAAGCAATTGGCTTGTGGTTACCTTTAAC
CAAAAACGTTGTGGGATTGATTTGGACACAGCAAAGTACATCTTGCCCAACATTGGAGACCACTTCTGT
CAAATGGTGATTTCTGAAAAGGAAGCTATGTCAACTATTGAGCCACACAGACAGGTTGCTTGAAGCGGAG
CTGTCAAAGGTGTTGAGAAAATGTGTGATGTGTGCGACACCACCTCTTCAACCTGCACTGGGTGTGTCC
TCGGTGTGGGTTTGGAGTATGTGTGGACTGCTACCGGATGAAGAGAAAAGAATTGCCAACAGGGTGTGTCT
TACAAGACTTTCTCTTGCTAAAATGTGTGAAGAGTCAAGATACATGAACCAGAGAAGCTTAATGCCACAC
AGATCATTCTGGAAAAGCACTCTATGATGTTGGAGACATTGTTCACTTCTGTAAGAGCGAAATGGGGAAT
AAAGGCAAACCTGCCCTTGTTCAAACAGGCAATTCAAACCTTTTTCAAAGCCAGCCTCAAAGGAAGACCTA
AAACAGACTTCTTAGCTGGAGAAAACCGACTCTTGGTGCAGTGTCCAGCAGAATCCCTCAGTGTGG
AGCCAGCAGCTGTGGTGGGGAAGCAGCCTCAAGCCAGCCGGCAGCATGAAGCCTGCCTGTCCAGCCAG
CACATCTCTCTAAACTGGCTGGCCGACCTAACAGCGGGAATGTCAACAAGGAAAACAAGGAAAAACAA
CCAACAATGCCAATTTTAAAGAATGAAATCAAATGCCTTCCACCCTCCACCTTTAAGCAAATCCAGCA
CAGTCTCCATACGTTTAAACAGCACAATTTTGACACCCGTAAGCAACAACAATTTCTGTTTTCTCCGGAA
TCTCTGAATTTCTTACAGGAAAGACAGAAAATGGACTCAAGAAATACACCAAAAATCCTTGATGACATC
TTTGCCTCTTGGTGCAAAAAGACGACTTCTGATTTTCTAAGAGGCCTCAAGGACTAACCATCAAGC
CCAGCATTCTGGGCTTTGACACTCTCACTATTGGCTTTGTGATAATCGTTGCTGTGCTTGAAGACCC
CAACAATAAGAGCAACTGGAATGTGTTAGGGAGTGTGGAAACAAGGGCAGCCAGTGTGGTGTCTGGA
GTGCATCATAAATGAACTCTGAACTTTGAAAACCTGAATCCTTCAGGAAAGAGTTTGGTGAAGCAGGAAG
TAGACCTAGTTAATTGTAGGACCAATGAAATCATCACAGGAGCCACAGTAGGAGACTTCTGGGATGGATT
TGAAGATGTTCCAAATCGTTTGAAAAATGAAAAAGAACCAATGGTGTGAACTTAAGGACTGGCCACCA
GGAGAAGATTTTAGAGATATGATGCCTTCCAGGTTTGTGATCTGATGGCCAACATTCCACTGCCCGAGT
ACACAAGGCGAGATGGCAAACCTGAATTTGGCCTTAGGCTGCCAAACTACTTTGTTGCGCCAGATCTGGG
CCCCAAGATGTATAATGCTTATGGATTAATCACTCCTGAAGATCGGAAATATGGAACAACAATCTTAC
TTAGATGTATCTGATGCAGCTAATGTGATGCTATGTGGGAATCCCAAAGGACAGTGTGAGCAAGAAG
AAGAAGTCCTTAAGACCATCCAAGATGGAGATTCTGACGAACTACAATAAAGCGATTTATTGAAGGAAA
AGAGAAGCCAGGAGCACTGTGGCACATATGCTGCAAAGGACACGGAGAAGATAAGGGAATTTCTTAAA
AAGGTATCAGAAGAGCAAGGTCAAGAAAACCCAGCAGACCACGATCCTATTCATGATCAAAGCTGGTATT
TAGACCGATCATTAAAGAAAACGTCTTCAAGAGTATGGAGTTCAAGGCTGGGCTATTGTACAGTTTCT
TGGGGATGTGGTGTATCCCGGAGGAGCTCCACATCAGGTTTCAACTTATATAGCTGCATCAAAGTGT
GCTGAAGATTTTGTCTCCAGAGCATGTTAAACTGCTTCTGGCTTACTCAGGAATCCGATATCTGT
CACAGACTCATACCAATCACGAAGATAAATTACAGGTGAAGAATGTTATCTACCATGCAGTGAAGATGC
AGTTGCTATGCTGAAAGCCAGTGAATCCAGTTTTGGCAAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229072 representing NM_001146688
 Red=Cloning site Green=Tags(s)

MVLTLGESWPVLVGRFRLSL SAADGSDGSHDSWDVERVAEWPWLSGTIRAVSHTDVTKKDLKVCVEFDGE
 SWRKRRIEIVYSLLRRAFLVEHNLVLAERKSPEISERIVQWPAITYKPLLDKAGLSITSVRFLGDQQRV
 FLSKDLLKPIQDVNSLRSLTDNQIVSKEFQALIVKHLDESHLLKGDKNLVGSEVKIYSLDPSTQWF SAT
 VINGNPASKTLQVNCEEIPALKIVDPSLIHVEVVHDNLVTCGNSARIGAVKRKSSENNGTLVSKQAKSCS
 EASPMCPVQVSVPTTVFKEILLGCTAATPPSKDPRQSTPQAANSPPNLGAKIPQGCHKQSLPEEISSCL
 NTKSEALRTKPDVCKAGLLSKSSQIGTGDLKILTEPKGSCTQPKTNTDQENRLESVPQAL TGLPKECLPT
 KASSKAELIANPPELQKHLEHAPSPSDVSNAPVEVKAGVNSDSPNNCSGKKVEPSALACRSQNLKESSVK
 VDNESSCRSNNKIQNAPSRKSVLTDPAKLKLLQSGEAFVQDDSCVNIVAQLPKCRECLDSLRLKDEQ
 QKDSPVFCRFFHFRRLQFNKHGVL RVEGFLTPNKYDNEAIGLWLP LTKNVVGDLD TAKYILANIGDHFC
 QMVI SEKEAMSTIEPHRQVAWKRAVKGVREMCVCDTTIFNLHWVCPRCGFGVCVDCYMRKRKNCQQGAA
 YKTF SWLKC VKSQIHEPENL MPTQIIPGKALYDVGDIVHSVRAKWG I KANCP CSNRQFKLF SKPASKEDL
 KQTS LAGEKPTL GAVLQQNPSVLEPAAVGGEAASKPAGSMKPAC PASTSPLNWLADL TSGNVNKENKEKQ
 PTMPILKNEIKCLPPLPPLSKSSTVLHTFNSTILTPVSNNSGFLRNLLNSSTGKTENGLKNTPKILDDI
 FASLVQNKTTSDL SKRPQGLTIKPSILGFDTPHYWLCDNRL LCLQDPNNKSNWNV FRECWKQGPVMVSG
 VHHKLNSELWKPEFRKEFGEQEVDLVNCR TNEIITGATVGD FWDGFE DVPNRLKNEKPMV LKLDWPP
 GEDFRDMMPSRFDDL MANIPLPEYTRRDGKLN L ASRLPNYFVRPDLGPKMYNAYGLITPEDRKYGTTNLH
 LDVSDAANVMVYVGI PKGQCEQEEV LKTIQDGDSE LTIKRFIEGKEKPGALWHIYAAKDEKIREFLK
 KVSEEQGQENPADHPIHDQSWYLD RSLRKRLHQEYGVQGWAI VQFLGDVVFIPAGAPHQVHNL YSICKV
 AEDFVSPEHVKHCFWL TQEFRYLSQTHTNHEDKLQVKNVIYHAVKDAVAMLKASESSFGPK

TRTRPLE - GFP Tag - V

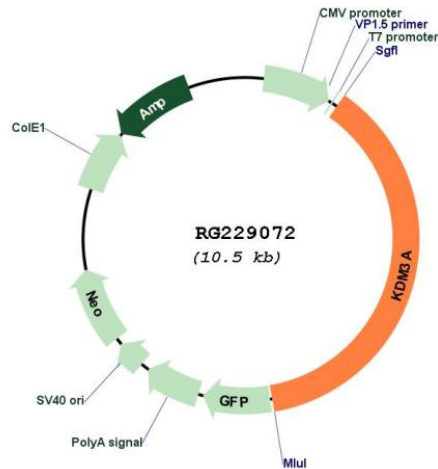
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146688

ORF Size: 3963 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_001146688.1](#), [NP_001140160.1](#)

RefSeq Size: 4638 bp

RefSeq ORF: 3966 bp

Locus ID: 55818

UniProt ID: [Q9Y4C1](#)

Cytogenetics: 2p11.2

Gene Summary:

This gene encodes a zinc finger protein that contains a jumonji domain and may play a role in hormone-dependent transcriptional activation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]