

Product datasheet for **RG229081**

KDM5D (NM_001146705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM5D (NM_001146705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM5D
Synonyms:	HY; HYA; JARID1D; SMCY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229081 representing NM_001146705 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCGGGTGTGACGAGTTCCTGCCGCCACCGGAGTGCCCGGTTTTTGAGCCTAGCTGGGCTGAAT
TCCAAGACCCGCTTGGCTACATTGCGAAAATAAGGCCATAGCAGAGAAGTCTGGCATCTGCAAAATCCG
CCCACCCGCGGATTGGCAGCCTCCTTTGTCAGTAGAAGTTGACAATTTAGATTTACTCCTCGCTCCAA
AGGCTAAATGAACTGGAGGCCAACTAGAGTGAATTTGAACTATTTGGATCAGATTGCAAAATCTGGG
AAATTCAGGCTCCTCTTTAAAGATTCCCAATGTGGAGCGGAAGATCTTGGACCTCTACAGCCTTAGTAA
GATTGTGATTGAGGAAGGTGGCTATGAAGCCATCTGCAAGGATCGTCGGTGGGCTCGAGTTGCCAGCGT
CTCCACTACCCACCGCAAAAACATTGGCTCCCTGCTACGATCACATTACGAACGCATTATTTACCCCT
ATGAAATGTTTTCAGTCTGGAGCCAACCATGTGCAATGTAACACACACCCGTTTGACAATGAGGTAAGA
TAAGGAATACAAGCCCCACAGCATCCCCCTTAGACAGTCTGTGCAGCCTTCAAAGTTCAGCAGCTACAGT
CGACGGGCAAAAAGGCTACAGCCTGATCCAGAGCCTACAGAGGAGGACATTGAGAAGCATCCAGAGCTAA
AGAAGTTACAGATATATGGGCCAGTCCCAAAATGATGGGCTTGGGCTTATGGCTAAGGATAAAGGATAA
GACTGTGCATAAGAAAGTCACATGCCCCCAACTGTTACGGTGAAGGATGAGCAAAGTGGAGGTGGGAAC
GTGTCATCAACATTGCTCAAGCAGCACTTGAGCCTAGAGCCCTGCACTAAGACAACCATGCAACTTCGAA
AGAATCACAGCAGTGCCAGTTTATTGACTCATATATTTGCCAAGTATGCTCCCGTGGGGATGAAGATGA
TAAGCTCTTTTTCTGTGATGGCTGTGATGACAATTACCACATCTTCTGCTTGTACCACCCCTTCTGAA
ATCCCCAGAGGCATCTGGAGGTGCCAAAATGTATCTTGGCGGAGTGAAACAGCCTCCTGAAGCTTTTG
GATTTGAACAGGCTACCCAGGAGTACAGTTTGCAGAGTTTGGTGAATGGCTGATTCTTCAAGTCCGA
CTACTTCAACATGCCTGTACATATGGTGCCTACAGAACTGTAGAGAAGGAATTTGGAGGCTGGTGAAGC
AGCATTGAGGAAGACGTGACAGTTGAATATGGAGCTGATATTCAATCCAAAGAATTTGGCAGTGGCTTTT
CTGTCAGCAATAGCAAACAAAATTTATCTCCTGAGGAGAAGAGACAAAGTCTCACTGTGTTGACCAGGCT
GATCTCAAGCTTCTGGCTCAAGCAGTCTCCACCTTGGCTCCCAAGTGTGGGATTACAGGAGTAT



[View online >](#)

GCGACCAGTGGTTGGAACCTGAATGTGATGCCAGTGCTAGATCAGTCTGTTCTCTGTCACATCAATGCAG
 ACATCTCAGGCATGAAGGTGCCCTGGCTGTACGTGGGCATGGTTTTCTCAGCATTGTTGGCATATTGA
 GGATCACTGGAGTTACTCTATTAATACTGTCATTGGGGTGAGCCGAAGACCTGGTATGGTGTACCTCC
 CTGGCAGCAGAGCATTGGAGGAGGTGATGAAGATGCTGACACCTGAGCTGTTTGATAGCCAGCCTGATC
 TCCTACACCAGCTGTCACTCTCATGAATCCCAACACTTGTATGTCCCATGGTGTGCCAGTTGTCGGCAC
 AAACAGTGTGCAGGGGAGTTTGTCACTCTTTTCTCGTGCTTACCACAGTGGTTTTAACCAAGGCTAC
 AATTTTGTGAAGCTGTCAACTTTTGTACTGCTGACTGGCTACCTGCTGGACGCCAGCATTGAACAT
 ACCGCCGGCTCCGGCGCTATTGTGCTTCTCCACGAGGAGCTCATCTGCAAGATGGCTGCCTTCCAGAG
 GACGTTGGATCTCAATCTAGCAGTAGCTGTGCACAAGGAGATGTTCAATTATGTTTTCAGGAGGAGCGACGT
 CTACGAAAGGCCCTTTGGAGAAGGGCGTCACGGAGGCTGAGCGAGAGGCTTTTGGAGCTGCTCCAGATG
 ATGAACGCCAGTGCATCAAGTGAAGACCAGTGTCTTGTGTCAGCCCTGGCTGCTACGACTGCCAGAG
 TGGCCTTGTATGCCTTCCACATCAATGACCTCTGCAAGTGTCTAGTAGCCGACAGTACCTCCGGTAT
 CGGTACACCTGGATGAGCTCCCACCATGCTGCATAAACTGAAGATTCGGGCTGAGTCTTTGACACCT
 GGGCCAAACAAGTGCAGTGGCCTTGGAGGTGGAGGATGGCCGTAACGCAGCTTTGAAGAGCTAAGGGC
 ACTGGAGTCTGAGGCTCGTGAAGGAGGTTTCTAATAGTGAAGTGTCTCAGCAGTGAAGAAGTGCCTG
 AGTGAGGTGGAGGCTTGTATTGCTCAAGTCTGGGGCTGGTCAAGTGGTCAAGTGGCCAGGATGGACACTC
 CACAGCTGACCTTGAAGTGAAGTCCGGTCTTCTTGGAGAGATGGGCAGCCTGCCCTGTGCCATGCATCA
 GATTGGGGATGTCAAGGATGTCTTGAACAGGTGGAGGCTATCAAGTGAAGTGTGAGGCTCGTGAGGCTCTGGCC
 ACAGTGCCTCTAGTCCAGGGCTATTGCGGTCCCTGTTGGAGAGGGGGCAGCAGCTGGGTGTAGAGGTGC
 CTGAAGCCCATCAGCTTCAAGCAGAGGTGGAGCAGGCGCAATGGCTAGATGAAGTGAAGCAGGCCCTGGC
 CCCTTCTGCTCACAGGGGCTCTGTGTCATCATGCAGGGGCTTTGGTTATGGGTGCCAAGATAGCCTCC
 AGCCCTTCTGTGACAAGGCCGGGCTGAGTGAAGAAGTACTGACCATGTCAGAGCCGCAATTCGTGAGAC
 AGAAACATCCCTGTTACCTGCCTAACATCCAGGCTCTCAAAGAAGCTGACTAAGGCACAAGCTTGG
 ATTGCTGATGTGGATGAGATCCAAAATGGTGACCACTACCCCTGTCTAGATGACTTGGAGGGCCTGGTGG
 CTGTGGGCCGGGACCTGCCTGTGGGGCTGGAAGAGCTGAGACAGCTAGAGCTGCAGGATTTGACAGCACA
 TTCCTGGAGAGAGAAGGCCTCCAAGACCTTTCTCAAGAAGAATTCTTGTACACACTGCTTGGAGTGTCTT
 TGCCCGTGTGCAGACGCTGGCTCAGACAGCACCAAGCGTAGCCGGTGGATGGAGAAGGGCCTGGGGTTGT
 ACCAGTGTGACACAGAGCTGCTGGGGCTGTCTGCACAGGACCTCAGAGACCCAGGCTCTGTGATTGTGGC
 CTTCAAGGAAGGGGAACAGAAGGAGAAGGAGGATCCTGCAGCTGCGTGCACCAACTCAGCCAAGCCC
 AGTCCACTGGCACCATCCCTCATGGCCTTCTCCGACTTCTATCTGTGTGTGGGCGAGTGGCAGCTG
 GGGTGGGAGTTTGCAGTGTGACCTGTGTGAGGACTGGTCCATGGGCAGTGTGTGTGAGTGCCTCATCT
 CCTCACCTCTCAAAGCCAGTCTCACTTCATCTCCACTGCTAGCCTGGTGGGAATGGGACACAAAATTC
 CTGTGTCCACTGTGTATGCGCTCACGACGGCCACGCCTAGAGACAATCCTAGCCTTGTGGTTGCCCTGC
 AGAGGCTGCCCGTGCGGCTGCCTGAGGGTGAAGGCTTCAAGTGTCTCACAGAGAGGGCCATTGGCTGGCA
 AGACCGTGCCAGAAAGGCTCTGGCCTCTGAAGATGTGACTGCTCTGTTGCGACAGCTGGCTGAGCTTCGC
 CAACAGCTACAGGCCAAACCCAGACCAGAGGAGGCTCAGTCTACACTTCAAGCCTGCTGTGACCCTA
 TCAGAGAAGGCAGTGGCAACAATTTCTAAGTCCAAGGGCTGCTGGAGAATGGAGACAGTGTGACCAG
 TCCTGAGAACATGGCTCCAGGAAAGGGCTGACCTGGAGTACTGTCCTCACTGTTGCCGCAAGTGGTACT
 GGCCCTGTGTTGGAGCTGCCTGAGGCAATCCGGGCTCCCCTGGAGGAGCTCATGATGGAAGGGGACCTGC
 TTGAGGTGACCCTGGATGAGAACCACAGCATCTGGCAGCTGCTGCAGGCTGGACAGCCTCCAGACCTGGA
 CAGAATTCGCACACTTCTGGAGCTGAAAAATTTGAACATCAAGGGAGTCGGACAAGGAGCCGGGCTCTG
 GAGAGGCGACGGCGGGCAGAAGGTGGATCAGGGTAGAAACGTTGAGAATCTTGTTCACAGGAGCTTC
 AGTCAAAAAGGGCTCGGAGCTCAGGATTATGTCTCAGGTGGGCCGAGAAGAAGCAATTATCAGGAGAA
 AGCAGACCGTGAATAATGTTCTGACACCTTCCACAGACCACAGCCCTTCTTGAAGGAAACAAAAT
 AGCTTACAACACAAGGATTCAGGCTCTCAGTGTCTTCTTAAATGCCTTGTCTACAACCTCTCTCT
 ACTCTGATGAGCAACAGTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229081 representing NM_001146705
 Red=Cloning site Green=Tags(s)

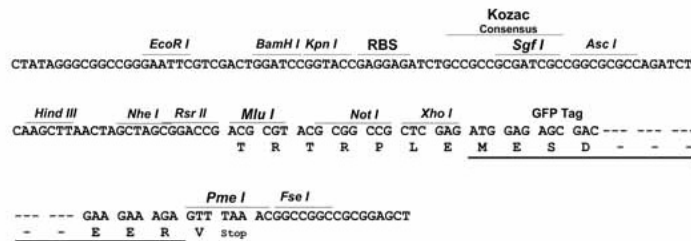
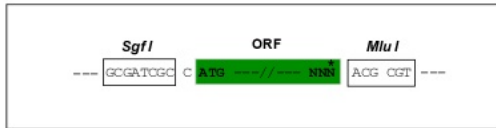
```
MEPGCDEFLPPPECPVFEPSSWAEFQDPLGYIAKIRPIAEKSGICKIRPPADWQPPFAVEVDNFRFTPRVQ
RLNELEAQTRVKLNLYLDQIAKFWEIQGSSLKIPNVERKILDLYSLKIVIEEGGYEAICKDRRWARVAQR
LHYPPGKNIGSLLRSHYERIIYPYEMFQSGANHVQCNTHPFDNEVKDKEYKPHSIPLRQSVQPSKFSYS
RRAKRLQPDPEPTEEDIEKHPELKKLQIYGP GPKMMGLGLMAKDKDKTVHKKVTCPPTVTVKDEQSGGGN
VSSTLLKQHLLEPCTKTTMLRKNHSSAQFIDSYICQVCSRGDDEDDKLLFCDGCCDDNYHIFCLLPPLPE
IPRGIWRCPKCILAECKQPPEAFGFEQATQEYSLQSFGEADSFKSDYFNMPVHMVPTTELVEKEFWRLVS
SIEEDVTVYEGADIHSKEFGSGFPVSNKQNLSPEEKRQSLTVLTRLISSFWAQAVLPPWPKVLGLQEY
ATSGWNLNMPVLDQSVLCHINADISGMKVPWLYVGMVFSAFWCWHIEDHWSYSINYLHWGEPKTYGVPVPS
LAAEHLEEVKMLTPELFDSDPDLHLQLVTLMPNNTLMSHGVPVVRTNQCAGEFVITFPRAYHSGFNQGY
NFAEAVNCTADWLPAGRQCIHYRRLRRYCVFSHEELICKMAAFPETLDLNLAVAVHKEMFIMVQEERR
LRKALLEKGVTEAERAEFELLPDDERQCIKCKTTCFLSALACYDCPDGLVCLSHINDLCKCSSRQYLRY
RYTLDELPTMLHKLKIRAESFDTWANKVRVALEVEDGRKRSFEELRALESEARERRFPNSELLQRLKNCL
SEVEACIAQVGLYVSGQVARMQDTPQLTLTELRLVLEQMGSLPCAMHQIGDVKDVLQVEAYQAEAREALA
TLPSSPGLLRSLLEGGQQLGVEVPEAHQLQQQVEQAQWLDEVKQALAPSARHGSLVIMQGLLVMGAKIAS
SPSVDKARAEQELLTIAERWEEKAHFCLEARQKHPPATLEAIIRETENIPVHLPNIQALKEALTKAQAW
IADVDEIQNGDHYPLDDELEGLVAVGRDLPVGLLEELRQLELQVLTAHWSREKASKTFLKKNSCYTLLEVL
CPCADAGSDSTKRSRWMEKALGLYQCDTELLGLSAQDLRDPGSIIVAFKEGEQKEKEGILQLRRTNSAKP
SPLAPSLMASSPTSI CVCGQVPAGVGVLCQDLCDQDFHGCQVSVPHLLTSPKPSLTSSPLLAWWEWDTKF
LCPLCMRSRRRPLETILALLVALQRLPVRLPEGEALQCLTERAIGWQDRARKALASEDVTALLRQLAELR
QQLQAKPRPEEASVYTSATACDP IREGSGNNISKVQGLLENGDSVTSPEENMAPGKGSDELSSLLPQLT
GPVLELPEAIRAPLEELMMEGDLLEVTLDENHSIWQLLQAGQPPDLDRIRTLELEKFEHQGSRTRSRL
ERRRRRQKVDQGRNVENLVQQELQSKRARSSGIMSQVGREEEHYQEKADRENMFLLTPSTDHSPFLKGNQN
SLQHKDSGSSAACPSLMPLQLSYSDEQQL
```

TRTRPLE - GFP Tag - V

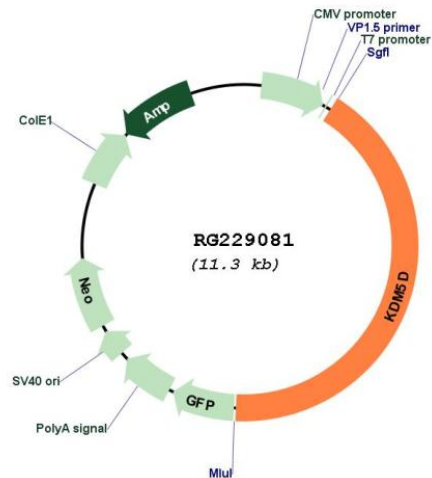
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001146705

ORF Size: 4710 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_001146705.1](#), [NP_001140177.1](#)

RefSeq Size: 5595 bp

RefSeq ORF: 4713 bp

Locus ID: 8284

UniProt ID: [Q9BY66](#)

Cytogenetics: Yq11.223

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a protein containing zinc finger domains. A short peptide derived from this protein is a minor histocompatibility antigen which can lead to graft rejection of male donor cells in a female recipient. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]