

Product datasheet for **RC223872**

JMJD1C (NM_004241) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD1C (NM_004241) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JMJD1C
Synonyms:	KDM3C; TRIP-8; TRIP8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC223872 representing NM_004241 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCGTTATGAATGATCAGGTAAGTACTAGAACACAGAATGTCGATCCTTCTATGGTTCAAATGACCTTTC
TAGATGATGTTGTTCACTCTTTGTTAAAAGGTGAAAATATTGGCATTACATCACGACGCAGGTCTCGTGC
CAATCAAACGCTCAACGCTGTTACAGCCATTATACACGTGCCAAAGCAAATAGTCCAGACCAGCAATG
AACTCCCAAGCTGCTGTACCAAAACAGAATACACACCAGCAACAGCAACAAAGAAGTATCCGTCCAATA
AGAGGAAGGGCTCAGATAGCAGTATACCAGATGAAGAGAAGATGAAGGAGGAAAAATATGATTATATATC
ACGAGGAGAAAACTCTAAAGGTAAAAACAAACACTTGATGAATAAAAGAAGGAAACCTGAGGAGGATGAA
AAGAACTAAATATGAAAAGACTTCGAAGTACAAATGTTTCAGACTTTTCTGAGAGCAGTGAAGTACAGAA
ATTCAAAATAAGAGAATAATAGATAATTCCTCAGAACAGAGCCAGAGAATGAATTGAAAAATAAAAAATC
TTCAAAAATAAATGGAGAAGAAGGAAAACCCATAATAATGAGAAGGCAGGAGAAGAGACCCTAAAAAT
AGCCAGCCTCCCTGGGATCAAAATACAGGAAGATAAAAAACATGAAGAAGCAGAGAAGCGGAAGTCTGTTG
ACACTCAGCTTCAAGAAGATATGATTATTCATTTCGTGAGAAGTCCACAGTTTCTGATCATAATTCTAA
TGATTTACTTCTCAGGAATGCAATATGGATAAAACACATACCATGGAATTGCTACCAAAAGGAGAAGTTT
GTATCCAGACCACCCACCAAAATGTGTTATTGATATTACAAATGACACTAATTTAGAAAAGGTGGCTC
AGGAAAACCAAGTACCTTTGGCCTTCAGACACTTCAGAAAATGGATCCTAATGTTAGTGATTCAAAAACA
CTCTATTGCAAAATGCAAAATCTTGAAACAGCAAAAAAGATTCTGACCAGAGCTGGGTGAGTATGTA
GTTAAAGTGGATCAACCAATCAAGTGTACAAATGCTTCTCAGGAAATGATCACTTGAACATGGAAA
AAGAGAAGTATGTCTTACATTTCTCCTTAAGTGCAGTTTCTGTCATGGAAGATAAGTGCATAAGCG
AAGTCCACCTCCAGAGACTATAAAATCTAACTTAATACTTCAGTAGATACTACAAGATAAAATCCAGC
CCATCACCTGAAGTTGTTAAACCAAAATAACTCATTCTCCTGATTCTGTAAGTCTAAGGCCACTTATG
TGAACAGCAAGCTACTGGTGAAGAAGATTGGCAAAATAAGATAGAACATGAGCTATCAAGATGCAGTTT
TCATCCAATTCCTACTCGAAGCAGTACATTAGAACTACAAAGAGTCTCTTATCATTGATAAAAATGAG
CATTTTACAGTTTACAGAGATCCTGCATTATTGGGTCAGAAAACAGGAGTAATCATATTTACCTTTCC



[View online »](#)

TAAGCCAGCATCCTTTTCTCTTCACTCCTCATCTCATAGAACCTGTTTAAATCCAGGTACCCATCATCC
 TGCCTTAACTCCTGCACCCCATTTACTAGCCGGATCATCTAGTCAAACCTCCATTACCTACCATTAACACT
 CATCCTCTGACTAGTGGTCCACACCATGCTGTTTATCACCCCTCATTTACTTCCCCTGTTTACCTGGAG
 TGCCTACTGCCTCCTTACTTGGTGGCCACCCACGACTAGAGAGTGTCTATGCCAGCAGCTTGAGCCACTT
 AGCGCTAGCACACCAGCAACAACAACAGTTGTTACAGCACCAGTACCTCATCTTCTTGGACAAGCCCAT
 CCTTCTGCTTATATAATCAGCTTGGACTTTATCCAATTATTTGGCAGTATCCAAATGGAACACATGCAT
 ACTCAGGACTTGGTTTGCCTTCTTCTAAGTGGTTCACCCAGAAAATGCAGTTAATGCTGAAGCTTCATT
 AAGGAGGAATTCTCCAGTCTTGGCTACATCAGCCACCCTGTGACCTCAGCAGATGGTATTGGATTA
 CTTAGTCACATTCCTGTGACACCTTCCAGTGCAGAGCCTCATCGCCTCTTAAAAATTACAGCCATTCCA
 GTCACCATTTGACAAAACTTTAGTAGATCATCATAAGGAAGAATTAGAAAAGAAAAGCTTTTATGGAACC
 ATTACGGTCTGTTGCATCCACATCAGCCAAAAATGACCTGGATCTAAATAGGTACAGACTGGAAAAAGAT
 TGTCACTTACATAGGCATTTTGTGGATCCAGTATTAATCAGTTACAGAGGCCACCCAGGAGACTGGAG
 AGAGGTTAAACAAATACAAGAGGAACACCGTCGAATTCTCAAGAAAAGTATTGATGTTGCTCCCTTTAC
 AACTAAAATCAAGGGACTTGAGGGTGGAGAGAGAATTATCCAGAGTGGCATCATCTTCCAGTCTCT
 AAAAGCCATATCATCAAACAAGATATGGATGTAGAACGCTCAGTATCAGATCTTTATAAAAATGAAGCACT
 CAGTGCCTCAGAGTTTACCCCAAAGTAACCTATTTCACTACATTGTCTAATAGTGGTCAATGAACCACC
 AAGATCATACCCATCCAAGAAGTTTCAAATATTTACGGTGATAAACAGAGTAATGCCCTTGACGCGGCA
 GCAGCTAATCCTCAAACCTGACTTCAATTTATAACATCTCTTCAAAGCCTCCACCTTTGATTAACACC
 AACCAGAAAGTGAAGTTTGTAGGCAAGATACCAGAACATCTTCCACATCAGATTGCATCTCACTCAGT
 AACAACCTTCAGAAAATGATTGTAGGAGTCTACCCATTTGACAGTTTCTTCTACAAAATCACTCCGCAGT
 ATGCCTGCATTACATAGAGCACCAGTATTTACCCACCAATCCATCACAGCCTGGAAAGAAAAGGAAGGCA
 GCTATAGTAGTCTTTCCCTCCAACCTTAACTCCGGTGTGCCAGTAAATGCTGGTGGTAAAGTTCAAGA
 ATCACAGAAAGCCTCCAACCTCTAATACCCGAACCAAAAAGACTCCCAGGCAAAATTTTAAAGATCTTTCAGAA
 CAGAGTTTGCAGGAGATGTGGAGACCTAATAATACCTCAGCAAAGAGAAAAGTGAATGGCATGTGGAGA
 AAAGCAGCGGAAAAGTTACAGGCTGCTATGGCATCTGTCATTGTGCGTCCATCTTCTAGTACAAAACTGA
 TAGTATGCCAGCAATGCAGTTAGCTTCTAAAGATCGAGTTAGTGAAGATCTTCAGCTGGGGCACATAAA
 ACAGATTGCCCTCAAACCTAGCAGAAGCCGGAGAAAAGTGAAGAATCATTGTTGCCAAATGTGAATTCAGACA
 GTGTTACACAAAAATCTGAAAAAACTTTACGGCTGTCTCACAGGGCAGTGTCCAGTTTCACTCATGTC
 TGCTGTAATACGATGTGTAATACCAAAACGGATGTAATCACATCTGCTGCCGACTACTACCAGTGTTC
 AGCTGGGGTGGTTCAGAAGTAATTTCTCTTTATCAAATACCATTTTGGCCTCTACATCATCAGAATGTG
 TATCTTAAAAAGTGTGAGTCAAGTCAAGGAGTGTGTTCAACCCAGTCTGGGTCTCAGGCACAACCTGATTTT
 ATCCATTTAAAAAAGCACAAGGCAGCATTGGCTGCAGCTCAGTATAAAAGTAGTAATGCCAGTGAGACTG
 AACCTAATGCTATAAAAAATCAGACACTTTTACGCTCCCTTCTCTGGATAGCACTGTAATCTGTAGTAC
 AATTAACAAGCAAACTCTGTAGGAAAATGGGCAAGCTTCCAGACAAGTCAACCAAACTACCATACTAAA
 CTGAAAAAGGCCTGGCTCACCAGACACTCAGAAGAAGTAAAAATACTAATAAAAATGGAATAATCAGGGA
 ATCTGTATCAGAAAATTTAAGCCATGTTCTGTCAACTTAATAGCCTCTACATCTAGTGATATACAAAA
 TAGTGTAGATAGTAAGATCATAGTTGATAAATATGTAAGATGATAAAGTCAACAGGAGAAAAGCCAAA
 AGAACTTATGAATCTGGCTCTGAAAGTGGAGACTCAGATGAAAGTGAAGCAAGTCAAGCAAAAGGACTA
 AAAGACAACCTAAGCCAACCTACAAAAAGAAGCAAAATGATTTGCAAAAGAGAAAAGTGAATAGAAGA
 AGATTTGAAACCAATGGAGTTCTCAGCAGGAGTGCCAAAAGAAAGTAAACTGAAGTTGCAAAGCAAC
 AGTAATACTGGCATTCTCGTTCAGTATTGAAAGATTGGCGTAAAGTCAAGAAGTGAAGCAAACTGGGG
 AATCCTTTTTACAGGATGACTCTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTGCGAATGTAGACT
 TATTCGCAGTAAAAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATTTTACTACTTTAGACGG
 TTGTCAATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTCTCTCTCTGACCAATATGATGATGAAG
 CTATGAGTTTGTGGACACATGAAAATTTGAAGATGATGAACTAGATATAGAGACTTCTAAATATATCTT
 GGATATAATAGGTGATAAGTTCTGTCAATAGTAACATCTGAAAAACAGCTTTGCTCCTGGGTGAAAAAG
 GATGCCAAAATTCCTGGAAAAGAGCAGTGAAGGAGTCCGGGAGATGTGTGATGCATGTGAAGCAACAT
 TGTTTAAACATTCCTGGTCTGCCAAAAATGTGGATTTGTGGTCTGCTTAGATTGTTACAAGGCAAAAGGA
 AAGGAAGATTCTAGAGATAAAGAACTATATGCTTGGATGAAGTGTGTAAGGGACAGCCTCATGATCAC
 AAACATTTAATGCCAACCCAAAATATACCTGGTTCTGTTTTGACAGATCTTCTAGATGCCATGCACACTC
 TTAGGGAAAAATATGGTATTAATCCCATTGTCTGTAACAACAGAAATTTACAAGTTGGAATTT

TCCTACAATGAATGGTGTATCTCAATCTCAGCAGCAAAATACTCCTCCGAAGTCTGAGAAAAATGGTGGC
AGCAGCCCAGAGAGTGTAGGCACAGATAACAAGTTAACTCCTCCAGAATCCCAGTCACCACTGCACT
GGTTAGCAGATCTTGCAGAGCAAAAAGCCAGAGAGGAAAAAAGAAAACAAAGAACTTACCCTTGAAAA
CCAAATTAAGAAGAAAGAGAACAAGACAACCTGAACTCCTCAATGGCAGAACATCACCTCTTGTGTCC
CAGAATAATGAACAAGGCTCAACCTTACGGGATTTGCTGACTACAACAGCTGGAAAGCTACGTGTGGGGT
CTACAGATGCTGGCATTGCCTTTGCCCCAGTATATTCAATGGGAGCCCCAAGTAGCAAAAAGTGGACGGAC
TATGCCTAACATTCTTGATGACATAATTGCTTCAGTTGTTGAAAACAAAATTCACCAAGTAAAACCTCC
AAGATAAATGTAACCAGAGCTTAAAGAAGAGCCTGAAGAAAGCATAATATCTGCAGTGGATGAAAATA
ATAAATTATACAGTGATATACCACATTCTGGATCTGTGAGAAGCATATTTTATGGCTTAAGGATTATAA
GAATAGCAGTAATTGGAAGCTTTTCAAAGAATGTTGAAAACAAGGACAGCCTGCAGTGGTTTCTGGTGTG
CATAAGAAAAAGAACATTAGCCTATGGAAGCGGAATCAATTAGTCTTGATTTTGGAGACCACCAAGCTG
ATCTCCTGAACTGCAAAGATAGCATCATTTCAAATGCCAATGTTAAGGAATTCTGGGATGGTTTTGAAGA
AGTTTCAAACCGCAGAAAAACAAGAGTGGAGAAACAGTTGTTTTAAAATTGAAAGACTGGCCTCAGGA
GAAGACTTCAAGACTATGATGCCAGCAAGATACGAAGATCTTTAAAAAGTCTGCCATTGCCAGAATATT
GTAATCCAGAAGGAAAATCAATTTGGCCTCTCATTTGCCAGGATTTTTGTACGTCCTGATCTAGGACC
CAGGTTGTGCAGTGCCTATGGTGTAGTTGCTGCTAAAGATCATGATATAGGAACAACAAATCTCCATATT
GAAGTTTCTGATGTTGTAATATACTAGTTTATGTTGGCATAGCAAAAAGGAAATGGCATTCTCTCAAAG
CAGGAATTCTCAAGAAATTTGAGGAAGAAGATTTGGATGACATTTAAGGAAAAGATTGAAGGACTCAAG
TGAAATACCTGGTCTCTGTGGCATATTTATGCTGGGAAAGATGTTGACAAGATAAGGGAATTTCTTCAA
AAGATTTCAAAGAACAAGGCCTTGAAGTTCTACCAGAACATGATCCAATACGTGACCAAGTTGGTATG
TGAAACAAAAGCTCCGTCAAAGGCTGCTTGAAGAATATGGAGTCAGAACCTGACTCTTATTCAGTTCT
TGTTGATGCTATTGTTTTGCCAGCGGGAGCACTTCATCAGGTTTCAAGATTTTACAGCTGTATTCAGGTA
ACTGAAGATTTTGTGCTCCAGAACATCTTGTAGAGTCATTTTATTTAACACAGGAAGTGAAGCTTTTGA
AGGAAGAAATCAATTATGATGATAAACTACAGGTTAAAAATATTTTGTATCATGCAGTCAAAGAAATGGT
GAGAGCCTTGAAGATACACGAGGATGAAGTAGAGGATATGGAAGAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

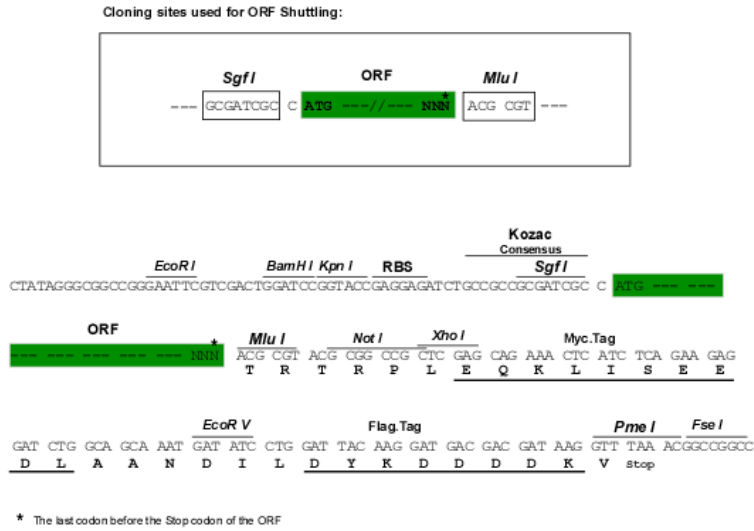
Protein Sequence: >RC223872 representing NM_004241
 Red=Cloning site Green=Tags(s)

MI VMNDQVLEPQNVDPSMVQMTFLDDVVHSLKGENIGITSRRRSRANQNVNAVHSHYTRAQANSPPAM
 NSQA AVPKQNT HQQQQRSIRPNKRKGS DSSIPDEEKMKEEKYDYISRGENPKGKNKHL MNKRRKPEEDE
 KKLNMKRLRTDNV SDFSESSDSENSNKRIIDNSSEQPENELKNKNTSKINGE EGKPHNNEKAGEETLKN
 SQPPWDQIQEDKKHEEA EKRSVDTQLQEDMIHSSEQSTVSDHNSNDLLPQECNMDKTHMELLPKEKF
 VSRPPTPKCVIDI TNDTNLEKVAQENSSTFGLQTLQKMDPNVSDSKHSI ANAKFLETAKKDSQSWVSDV
 VKVDLTQSSVTNASSGNDHLNMEKEKYVSYISPLSAVSMEDK LHKRSPPPETIKSKLNTSVDTHKIKSS
 PSPEVVKPKITHSPDSVSKATYVNSQATGERRLANKIEHEL SRCSFHIPTRSS TLETTKSPLIIDKNE
 HFTVYRDPALIGSETGANHISPFLSQHPFLHSSSHRTCLNPGTHHPAL TPAPHLLAGSSSQTPLPTINT
 HPLTSGPHHAVHHPHLLPTVLPGVPTASLLGGHPRESAHASSLSHLALAHQQQQQLLQHSPHLLGQAH
 PSASYNQLGLYPIIWQYPNGTHAYSGLGLPSSKWWHPENAVNAEASLRNNSPSPWLHQPTPVSADGIGL
 LSHIPVRPSSAEPHRPLKITAHS SPLLTKTLVDH HKEELERKAFMEPLRSVASTSAKNDL DLNRSQTGKD
 CHLHRHFVDPVLNQLQRPPQETGERLNKYKEEHRRILQESIDVAPFTTKIKGLEGERENYSRVASSSSSP
 KSHIIKQDMDVERSVDLYKMKHSVPQSLPQSNYF TFLSNSV VNEPPRSYPSKEVSNIIYGDKQSNALAAA
 AANPQTLTSFITSLSKPPPLIKHQPESEGLVGKIP EHLPHQIASHSVTFRNDCRSPHTLTVSSTNTLRS
 MPALHRAPVVFHPIHHS LERKEGSYSSLPPTLTPVMPVNAGGKVQESQKPP TLIPEPKDSQANFKSSSE
 QSLTEWWRPNNL SKEKTEWHVEKSSGKLQAAMASVIVRPSSTKTDSMPAMQLASKDRV SERSSAGAHK
 TDCLKLAEAGETGR IILPNVNSDSVHTKSEKNFQAVSQGSVPSSVMSAVNTMCNTKTDVITSAADTTSVS
 SWGGSEVISSLSNTILASTSSECVS SVSQPVAQKQECKVSTTAPVTLASSKTGSVVQPSGGFSGTTDF
 IHLKHKHAALAAAYKSSNASETEPNAIKNQTL SASLPDSTVICSTINKANSVGNQASQTSQPNYHTK
 LKKAWL TRHSEEDKNTNKMENSGNSVSEIIKPCSVNLI ASTSSDIQNSVDSKIIIVDKYVKDDKVNRRKAK
 RTYESGSESGDSESESKSEQRTRKRPKPTYKKKQNDLQKRKGEIEEDLKPNGVLSRS AKERSKLLKLSN
 SNTGIPRSVLKDW RKVKK LKQTGESFLQDDSCCEIGPNLQKCRECRLIRSKKGEEPAHSPVFCRFYYFRR
 LSFSGNGVVRIDGFSSPDQYDDEAMSLW THENFEDDELDIETSKYILDIIIGDKFCQLVTSEKTALSWVKK
 DAKIAWKRAVRGVREMC DACEATLFNIHWVCQKCGFVVCLDCYKAKERKSSRDKELYAWMKCVKGQPHDH
 KHLMPTQIIPGSVLTDL LDAMHTLREKYGIKSHCHCTNKQNLQVGNFPTMNGVSQSQQQNTPPKSEKNGG
 SSPESDVGTDNKLTPPESQSPLH WLADLAEQKAREEKENKEL TLENQIKEEREQDNSESPNGRTSPLVS
 QNNEQGSTLRDLLTTTAGKLRV GSTDAGIAFAPVYSMGAPSSKSGRTMPNILLDDIIASVVENKIPPSKTS
 KINVKPELKEEPEESII SAVDENNKLYSDIPH SWICEKHILWLKDYKNSSNWKL FKECWKQGPVAVVSGV
 HKKMNISLWKAESISLDFGDHQADLLNCKDSII SNANVKEFWDFEEVSKRQKNKSGETVVLKLDWPSG
 EDFKTMMPARYEDLLKSLPLPEYCNPEGKFN LASHLPGFFVRPDLGPRLCSAYGVVA AKDHDIGTTLNHI
 EVSDVVNII VYVGIKNGILSKAGILKKFEEDLDDILRKR LKDSSEIPGALWHIYAGKD VDKIREFLQ
 KISKEQGLEVLPEHDPIRDQSWYVNKLRQRLLEEYGVRTCTLIQFLGDAIVLPAGALHQVQNFHSCIQV
 TEDFVSPEHLVESFHLTQELRLLKEEINYDDKLQVKNILYHAVKEMVRALKIHEDEVEDMEEN

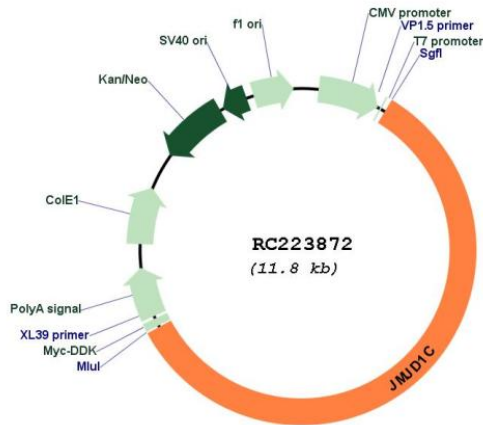
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004241
 ORF Size: 6909 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_004241.2, NP_004232.2</p>
RefSeq Size:	<p>8415 bp</p>
RefSeq ORF:	<p>6911 bp</p>
Locus ID:	<p>221037</p>
Cytogenetics:	<p>10q21.3</p>
Protein Families:	<p>Druggable Genome</p>
MW:	<p>256.6 kDa</p>
Gene Summary:	<p>The protein encoded by this gene interacts with thyroid hormone receptors and contains a jumonji domain. It is a candidate histone demethylase and is thought to be a coactivator for key transcription factors. It plays a role in the DNA-damage response pathway by demethylating the mediator of DNA damage checkpoint 1 (MDC1) protein, and is required for the survival of acute myeloid leukemia. Mutations in this gene are associated with Rett syndrome and intellectual disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p>