

Product datasheet for **RG235388**

CNOT1 (NM_001265612) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT1 (NM_001265612) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNOT1
Synonyms:	AD-005; CDC39; HPE12; NOT1; NOT1H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235388 representing NM_001265612 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCTTGACTCGCTCTCGCTGGCCTTGCTCAAATCAGCTACCTGGTGGACAATTTAACCAAGAAAA
ATTACCGAGCCAGCCAGCAGGAAATACAGCATATTGTGAATCGGCACGGTCTGAGGCAGACAGGCATTT
ATTACGCTGCCTATTTTCGCATGTGGATTTCACTGGCGATGGTAAAAGCAGTGGCAAAGATTTCCATCAG
ACTCAGTTTCTGATTCAAGAGTGTGCGTTGCTGATTACAAAGCCAAATTTATCTCGACGCTGTCCTATG
CCATTGATAATCCATTGCACTATCAGAAGAGTTTAAAGCCTGCACCCACTTATTTGCCAGCTGAGTAA
AGTGCTCAAATTAAGCAAAGTACAAGAGGTAATTTTGGCCTTGCCTGTTGAATCTTCCAGCTCAGAT
CTTAGAGGTTTCGCTGCCAGTTTATCAAACAGAAGCTTCCAGATCTTCTGCGTTCTTACATTGACGCAG
ACGTCACTGGAAATCAAGAAGGTGGCTTCCAAGATATAGCAATAGAGGTCTACACCTCCTCCTCCCA
TCTCCTCTTTGGGCAGAAGGGAGCCTTTGGAGTTGGACAAGAACAGATAGACGCTTTTCTTAAGACGCTG
CGCAGAGATTTCCCAAGAAGCCTGTCCCGTGGTGTCTGCACCACTTTTATACCTGAAAAACGGGACA
TTCTAATGGACAGGATCTGCCTGATCCGGAGGGTAGCTAAAACCATGATGGAGAGCTTTTGGCTGA
TTTCATGCAAGAAGTAGGCTATGGCTTTTGTGCAAGTATTGAAGAATGTGCAATATAATCGTGCAGTTT
GGTGTTCGGGAGGTCACAGCTGCCAGGTTGCAAGGGTTTGGGAATGATGGCTCGAAGTCACTCAGGAT
TAACAGATGGCATTCCATTACAGAGTATTTCTGCTCCGGCAGTGGGATCTGGAGTATGGGAAAGATAA
AAGTGATGGAGCACAGGCACACACATGGAATGTAGAAGTCTTGATTGACGTTCTTAAAGAACTGAATCCA
AGTTTGAATTTCAAGGAAGTAACTTATGAACTGGACCATCCTGGATTTCAAATTCGTGACAGTAAAGGAC
TTCATAATGTGGTTTATGGCATTCAAGAGGGTTTGGGTATGGAAGTGTCCAGTAGACCTCATATATAG
ACCTTGAAACATGCTGAAGGCCAGCTCTCCTTCACTCAACATTCCTTATAAATCCAGAGATCTTCTGT
TTTGCTGACTATCCCTGTACTACTGTTGCCACTGATATTCTGAAAGCACCACCAGAGGATGACAATCGAG
AAATTGCCACATGGAAGAGCTTGGATTTGATTGAATCTCTGCTGAGGCTTGCAGAGGTTGGCAGTATGA
GCAAGTCAAACAGCTCTCAGCTTCCCTATCAAACACTGTCCAGACATGCTGGTATTGGCCTTACTACAA



[View online >](#)

ATTAACACCTCTTGGCATACCTTGCGCCATGAACTTATCTCCACTCTGATGCCAATTTTCCTTGAAACC
 ATCCTAACTCAGCTATTATTTGCACTATGCATGGCATGGGCAGGGACAGTCTCCCTCAATTCGCCAACT
 TATCATGCATGCAATGGCAGAATGGTACATGAGAGGGGAGCAGTATGATCAGGCCAAATGTCTCGAATA
 CTTGATGTGGCCAGGACTTGAAGGCCTTGTCAATGCTGCTAAATGGTACTCCATTTGCSTTTGTTATTG
 ACCTTGCTGCACTTGCTTACGTCGTGAATACCTCAACTTGATAAGTGGCTCACAGATAAAATTCGAGA
 GCATGGGGAGCCTTTTATCCAGGCGTGTATGACTTTTTTAAAGAGACGGTGTCTTCTATTTTGGCGGA
 GTCTGCAAGCTTGTGACGGGAGTGTTCCTCAGGAGTATCAGAACTATCCTCACCATGGTAGCCAATTG
 CAGTAATGTTATGAATAAGGCCAGACAACCACCACCTGGAGTTATGCCAAAAGGACGTCCTCCTAGTGCT
 AGCAGCTTAGATGCCATTTCTCCTGTTGAGATTGACCCTCTTGCTGGAATGACATCTCTTAGTATAGGTG
 GTTCAGCTGCCCCTCACACCCAGAGTATGCAGGGTTTTCTCCAAATTTGGGTTCTGCATTAGTACCCC
 TCAGTACCAGCAAAAGCATTTCACCCCTTTCAACCCCAATCAGACCACTGCATTAGTGGTATTGGA
 GGACTTTCATCACAGCTCCAGTAGGTGGTCTTGGCACAGGCAGCCTGACTGGTATAGGAACTGGTGCTC
 TTGGACTCCCTGCAGTGAATAACGACCCTTTGTACAGAGGAACTGGGCACCTCTGGACTGAATCAGCC
 TACATTCCAGCAGACGGACTTGTCTCAGGTGTGGCCAGAGGCAAACCAGCACTTTAGTAAAGAGATAGAT
 GATGAAGCAAACAGCTATTTCCAGCGAATATATAATCATCCACCACATCCAACCATGTCTGTTGATGAGG
 TATTAGAAATGCTGCAGAGATTTAAAGACTCTACTATAAAGAGGGAAACGAGAAGTATTTAACTGTATGCT
 AAGGAACTTGTGTTGAAGAATATCGTTTTTTCCCCAGTATCCTGATAAAGAGTTACATATAACAGCCTGC
 CTATTTGGTGGTATAATTGAGAAAGGACTGGTCACTTACATGGCACTAGGTCTGGCTCTACGATATGTTT
 TTGAAGCCTTACGCAAGCCTTTTGGATCCAAAATGTATTATTTCCGGATTGCTGCACTAGATAGATTTAA
 AAACAGATTGAAGGACTATCCCAAGTATTTGTCAGCATTGGCTTCTATCAGTCACTTTATGCAATTTCCA
 CATCATTTACAGGAGTATATTGAGTATGGACAGCAGTCTAGAGATCCTCCTGTGAAAAAGCAAGGCTCTA
 TCACAACCCCTGGAAGTATTGCACTGGCTCAGGCCAGGCTCAGGCCAGGTTCCAGCAAAAGCCTCTCT
 TGCTGGTCAAGTTAGCACTATGGTAACCACTCAACAACCTACCCTGTTGCTAAAACGGTTACGGTCAAC
 AGGCCAACTGGAGTCAGCTTTAAGAAAGATGTGCCACCTTCTATTAATACTACAAATATAGATACGTTGC
 TTGTGGCCACAGATCAAACCTGAGAGAATTTGGAGCCCCAGAAAATATCCAGGAGAAAATGCTTTTAT
 TTTCAATAATCTCTCACAGTCAAATATGACACAAAAGGTTGAAGAGCTAAAGGAAACGGTAAAGAAAGAA
 TTTATGCCTTGGGTTTACAGTATCTGGTTATGAAGAGAGTCAAGTATTGAGCCAACTTTCATAGCCTGT
 ATTCAACTTCTTGACACGCTGAAGAATCCTGAATTTAACAAGATGGTCTGAATGAGACCTACAGAAA
 CATTAAAGTGTCTGACCTCTGATAAAGTGCAGCAATTTCTCAGATCGTTCTTTGCTGAAGAAGTGG
 GGACATTGGCTAGGAATGATCACATTAGCTAAAAACAACCCATCTTACACACTGACTTGGATGTGAAAT
 CATTGCTGCTAGAGGCTTATGTTAAAGGACAACAAGAATTGCTCTATGTAGTGCCCTTTGTTGCCAAAGT
 CTTAGAATCTAGCATTCTGATGTGGTTTTTAGGCCACCAACCCCTTGGACAATGGCAATATGAATGTA
 TTAGCTGAGCTACATCAGGAGCATGACTTAAAGTTAACTTGAAGTTTGAATTCGAGGTTCTCTGCAAGA
 ACCTTGCAATTAGACATCAATGAGCTAAAACCTGGAAAACCTCCTAAAGGATAAAGATCGCCTGAAGAAAT
 AGATGAGCAACTCTGCTCCAAAGAAAGATGTCAAGCAGCCAGAAGAATCCCTCCCATCACAAACCACA
 ACAACTTCTACTACACAGCTACCAACACCCTGTACAGCCACGGTCCACCACAGCCACAGTACAGCT
 ACCACGACATCAATGTCTATCCCTTGGGGCTTGGCACACACATTACTCTGAATCCAACAATCCCTT
 GTTTCAGGCCCATCCACAGTTGAAGCAGTGTGTGCGTCAGGCAATTGAACGGGCTGTCCAGGAGCTGGTC
 CATCCTGTGGTGGATCGATCAATTAAGATTGCCATGACTACTTGTGAGCAAATAGTCAGGAAGGATTTTG
 CCCTGGATTCCGGAGGAATCTCGAATGCGAATAGCAGCTCATCACATGATGCGTAACTTGACAGCTGGAAT
 GGCTATGATTACATGCAGGGAACCTTTGCTCATGAGCATATCTACCAACTTAAAAACAGTTTTGCTCA
 GCCCTTCTGACTGCTTCCCACAACAAGAGAAAATGATGGATCAGGCAGCTGCTCAATTAGCTCAGGACA
 ATTGTGAGTTGGCTTGTGTTTTATTGAGAAGACTGCAGTAGAAAAAGCAGGCCCTGAGATGGACAAGAG
 ATTAGCAACTGAATTTGAGCTGAGAAAACATGCTAGGCAAGAAGGACGCAGATACTGTGATCCTGTTGTT
 TTAACATATCAAGCTGAACGGATGCCAGAGCAAATCAGGCTGAAAGTTGGTGGTGTGGACCCAAAGCAGT
 TGGCTGTTTACGAAGAGTTTGCACGCAATGTTCTGGCTTCTTACCTACAAATGACTTAAAGTCAAGCCAC
 GGGATTTTAGCCAGCCATGAAGCAAGCTTGGGCAACAGATGATGTAGCTCAGATTTATGATAAGTGT
 ATTACAGAAGTGGAGCAACATCTACATGCCATCCCACTTTGGCCATGAACCTCAAGCTCAGGCTC
 TTCGAAGTCTCTTGGAGTTGTAGTTTTATCTCGAACTCTCGGGATGCCATAGCTGCTCTTGGATTGCT
 CCAAAAGGCTGTAGAGGGCTTACTAGATGCCACAAGTGGTGTGATGCTGACCTTCTGCTGCGCTACAGG
 GAATGCCACCTTGGTCTTAAAGCTCTGCAGGATGGCCGGCATATGGGTCTCCATGGTGAACAAC

AGATCACAAAGGTGCCTAATTGAATGTCGAGATGAATATAAATATAATGTGGAGGCTGTGGAGCTGCTAAT
TCGCAATCATTTGGTTAATATGCAGCAGTATGATCTTCACCTAGCGCAGTCAATGGAGAATGGCTTAAAC
TACATGGCTGTGGCATTGCTATGCAGTTAGTAAAAATCCTGCTGGTGGATGAAAGGAGTGTGCTCATG
TACTGAGGCAGATCTGTTCCACACCATTGAAACCCTCATGAGGATTAATGCTCATTCCAGAGGCAATGC
TCCAGAAGGATTGCCCGAGCTGATGGAAGTAGTGCATCCAATATGAAGCAATGATTGATCGTGCTCAT
GGAGGCCAAACTTTATGATGCATTCTGGGATCTCTCAAGCCTCAGAGTATGATGACCCTCCAGGCCTGA
GGAGAAGGCAGAGTATCTTCTGAGGGAATGGTGAATCTTACCATTGAGCAGCAGCTGGCCGCGACAG
TACCAAAGCTTTCTCTGCATTTGTTGGACAGATGCACCAGCAAGGAATACTGAAGACCGATGATCTCATA
ACAAGTTCTTTCTGCTGTGTAAGTGTGTTGAAATCAGTTACCGTGCTCAGGCTGAGCAGCAGC
ACAATCTGCTGCCAATCCCACCATGATCCGAGCCAAGTCTATCACAACCTGGATGCCTTTGTTGACT
CATTGCACTGCTCGTGAACACTCAGGGGAGGCCACCAACTGTGACAAAGATTAATCTGCTGAACAAG
GTCCTTGGTATAGTAGTGGGAGTCTCCTTCCAGGATCATGATGTTGTCGTCAGAGTGAATTTAGCAACTTC
CCTACCATCGAATTTTTATCATGCTTCTTGGAACTCAATGCACCTGAGCATGTGTTGAAACCATTAA
TTTCCAGACACTTACAGCTTTTCTGCAATACATTCCACATCTTGGGCCTACCAAAGCTCCTGGCTTTGTA
TATGCCTGGCTTGAAGTATTTCCCATCGGATATTTATTGCAAGAATGCTGGCACATACGCCACAGCAGA
AGGGGTGGCCTATGTATGCACAGCTACTGATTGATTTATTCAAATATTTAGCGCCTTTCTTAGAAATGT
GAACTACCAAACCTATGCAAATCCTCTACAAGGGCACTTTAAGAGTGTGCTGTTCTTTTGCATGAT
TTCCCAGAGTTTCTTTGTGATTACCATTATGGGTTCTGTGATGTGATCCACCTAATTGTATCCAGTTAA
GAAATTTGATCCTGAGTGCCTTTCCAAGAAACATGAGGCTCCCGACCCATTCACTCCTAATCTAAAGGT
GGACATGTTGAGTGAAATTAACATTGCTCCCGGATTCTACCAATTTCACTGGAGTAATGCCACCTCAG
TTCAAAAAGGATTTGGATTCTTCTTAAACTCGATCACCAGTCACTTTCTGTCTGATCTGCGCAGCA
ACCTACAGGTATCCAATGAACCTGGGAATCGCTACAACCTCCAGCTCATCAATGCCTGGTGTCTATGT
CGGGACTCAGGCCATTGCGCACATCCACAACAAGGGCAGCACACCTTCAATGAGCACCATCACTCACTCA
GCACACATGGATATCTTCCAGAATTTGGCTGTGGACTTGGACACTGAGGGTCGCTATCTCTTTTGAATG
CAATTGCAAATCAGCTCCGGTACCCAAATAGCCCACTCACTACTTCAAGTGCACCATGCTGTACCTTTT
TGCAGAGGCCAATACGGAAGCCATCCAAGAACAGATCACAAGAGTTCTTGGAACGGTTGATTGTAAT
AGGCCACATCCTTGGGTCTTCTTATTACCTTCATTGAGCTGATTAACCCAGCGTTAAGTTCTGGA
ACCATGAATTTGTACACTGTGCCCCAGAAATCGAAAAGTTATTCCAGTCGGTCGCACAGTGTGCATGGG
ACAGAAGCAGGCCAGCAAGTAATGGAAGGGACAGGTGCCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235388 representing NM_001265612
 Red=Cloning site Green=Tags(s)

MNLDLSSLALSQISYLVNLTKKNYRASQQEIQHIVNRHGPEADRHLRCLFSHVDFSGDGKSSGKDFHQ
 TQFLIQECALLITKPNFISTLSYAIDNPLHYQKSLKPAPHLFAQLSKVLKLSKVQEVIFGLALLNSSSSD
 LRGFAAQFIKQKLPDLLRSYIDADVSGNQEGGFQDIAIEVLHLLLHLLFGQKGFVGVGQEQIDAFKLT
 RRDFPQERCPVVLAPLLYPEKRDILMDRILPDSGGVAKTMMESSLADFMQEVGYGFCASIEECRNIIVQF
 GVREVTAAQVARVLGMMARTHSLTDGIPLQSIAPGSGIWSGDKSDGAQAHTWNVEVLIDVLKELNP
 SLNFKEVTYELDHPGFQIRDSKGLHNVVYGIQRGLGMEVFPVDLIYRPWKHAEGQLSFIQHSLINPEIFC
 FADYPCHTVATDILKAPPEDDNREIATWKSLLDIESLLRLAEVQYEQVKQLFSFPIKHCMDMLVALLQ
 INTSWHTLRHELISTLMPIFLGNHPNSAIIHYAWHGQSQSPSIRQLIMHAMAEWYMRGEYDQAKLSRI
 LDVAQDLKALSMLLNGTPFAFVIDLAALASREYLKLDKWLTDKIREHGEPFIQACMTFLKRRCP SILGG
 LAPEKDQPKSAQLPPELATMLACLQACAGSVSQELSETILTMVANCSNVMNKARQPPGVMPKGRPPSA
 SSLDAISPQVIDPLAGMTSLSIGGSAAPHTQSMQGFPPNLGSAFSTPQSPAKAFPPLSTPNQTTAFSGIG
 GLSSQLPVGGLGTGSLTGIGTGALGLPAVNNDPFVQRKLGTSGLNQPTFQQTDLSQVWPEANQHFKEID
 DEANSYFQRIYNHPPHTMSVDEVLEMLQRFKDSTIKREREVFNCLRNLFEEYRFFPQYDPKELHITAC
 LFGGIIIEKGLVTYMALGLALRYVLEALRKPFGSKMYFVFGIAALDRFKNRLKDYPYQCQLHASICSHFMQFP
 HHLQEYIEYGQSRDPPVKMQGSIITPGSIALAQAQAQVPAKAPLAGQVSTMTVTSTTTTVAKTVTVT
 RPTGVSFKKDVPPSINTTNIIDTLLVATDQTERIVEPPENIQEKIAFIFNNLSQSNMTQKVEELKETVKEE
 FMPWVSQYLMKRVSIENPFHSLYSNFLDTLKNPEFNKMVLNETYRNIKVLLTSDKAAANFSDRSLKLN
 GHWLGMITLAKNKPILHTDLVKSLLEAYVKGQOELLVYVFPVAKVLESSIRSVVFRPPNPWTMAIMNV
 LAELHQEHDLKLNLFKFEIEVLCKNLALDINELKPGNLLKDKDRLKNLDEQLSAPKKDVKQPEELPPIITT
 TTSTTPATNTTCTATVPPQPQYSYHDINVYSLAGLAPHITLNPITPLFQAHPQLKQCVRQAIERAVQELV
 HPVVDRSIIAMTTCEQIVRKDFALDSEESRMRIAAHHMMRNLTAGMAMITCREPLLMSISTNLKNSFAS
 ALRTASPPQREMMDQAAAQLAQDNCELACCFIQKTAVEKAGPEMDKRLATEFELRKHARQEGRRYCDPVV
 LTYQAERMPEQIRLKVGGVDPKQLAVYEEFARNVPGFLPTNDLSQPTGFLAQPMKQAWATDDVAQIYDKC
 ITELEQHLHAIPPTLAMNPQAQALRSLLEVVLNRNSRDAIAALGLLQKAVEGLLDATSGADADLLRYP
 ECHLLVLKALQDGRAYGSPWCNKQITRCLIECRDEYKYNVEAVELLIRNHLVNMQQYDLHLAQSMENGLN
 YMAVAFAMQLVKILLVDERSVAHVTEADLFHTIETLMRINAHSRGAPEGLPQLMEVVRSNYEAMIDRAH
 GGPNNFMMHSGISQASEYDDPPGLREKAEYLLREWVNLVHSAAGRDSTKAFSAFVGMHQGQILKTDLLI
 TRFFRLCTEMCVESYRAQAEQQHNPAANPTMIRAKCYHNLDAFVRLIALLVKHSGEATNTVTKINLLNK
 VLGIVVGVLLQDHDVRQSEFQQLPYHRIFIMLLLELNAPEHVLETINFQTLTAFCNTFHILRPTKAPGFV
 YAWLELISHRIFIARMLAHTPQQKGWPMYAQLLIDLKYLAPFLRNVELTKPMQILYKGTLRVLLVLLHD
 FPEFLCDYHYGFCVIPPNCIQLRNLILSAFPRNMRLPDPFTPNLKVDMLSEINIAPRILTNFTGMVPPQ
 FKKDLDSYLKTRSPVTFSLDLRSNLQVSNPEGNRYNLQLINALVYVGTQAIHAIHNKGSTPSMSTITHS
 AHMDIFQNLAVDLDEGRYFLNAIANQLRYPNSHTHYFSCTMLYFAEANTEAIEQEQITRVLLERLIVN
 RHPHWGLLITFIELIKNPAFKFWNHEFVHCAPEIEKLFQSV AQCCMGQKQAQQVMEGTGAS

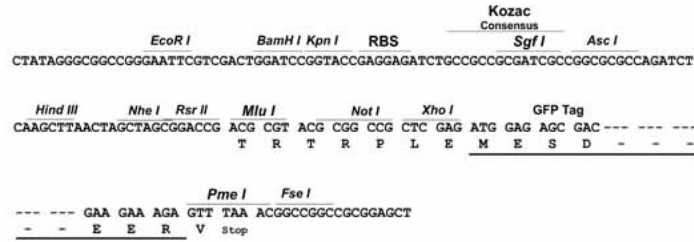
TRTRPLE - GFP Tag - V

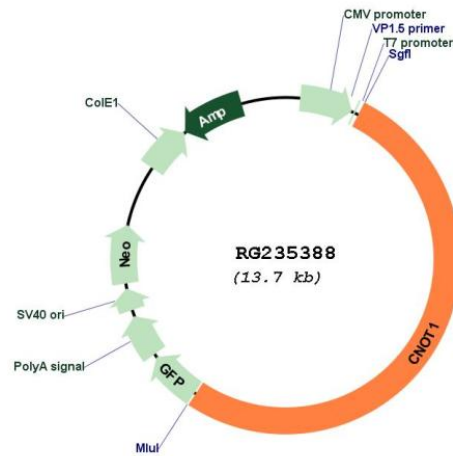
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001265612

ORF Size: 7113 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_001265612.2](#)

RefSeq Size: 8461 bp

RefSeq ORF: 7116 bp

Locus ID: 23019

UniProt ID: [A5YKK6](#)

Cytogenetics: 16q21

Protein Pathways: RNA degradation

Gene Summary: Scaffolding component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. Additional complex functions may be a consequence of its influence on mRNA expression. Its scaffolding function implies its interaction with the catalytic complex module and diverse RNA-binding proteins mediating the complex recruitment to selected mRNA 3' UTRs. Involved in degradation of AU-rich element (ARE)-containing mRNAs probably via association with ZFP36. Mediates the recruitment of the CCR4-NOT complex to miRNA targets and to the RISC complex via association with TNRC6A, TNRC6B or TNRC6C. Acts as a transcriptional repressor. Represses the ligand-dependent transcriptional activation by nuclear receptors. Involved in the maintenance of embryonic stem (ES) cell identity.[UniProtKB/Swiss-Prot Function]