

Product datasheet for **SC204951**

p8 (NUPR1) (NM_001042483) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	p8 (NUPR1) (NM_001042483) Human 3' UTR Clone
Symbol:	p8
Synonyms:	COM1; P8
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001042483
Insert Size:	2000 bp



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Insert Sequence:	>SC204951 3'UTR clone of NM_001042483 The sequence shown below is from the reference sequence of NM_001042483. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC GAGAGGAAGAAGCGAGGGGCACGGCGCTGAGACAGAGCTGGAGATGAGGCCAGACCATGGACACTACAC CCAGCAATAGAGACGGGACTGCGGAGGAAGGAGGACCCAGGACAGGATCCAGGCCGGCTTGCCACACCC CCCACCCCTAGGACTTATTCCCGCTGACTGAGTCTCTGAGGGGCTACCAGGAAAGCGCCTCCAACCTTA GCAAAAGTGCAAGATGGGGAGTGAGAGGCTGGGAATGGAGGGGCAGAGCCAGGAAGATCCCCAGAAAA GAAAGCTACAGAAGAACTGGGGCTCCTCCAGGGTGGCAGCAACAATAAATAGACACGCACGGCAGCCA CAGCTTGGGTGTGTGTTTCATCCTTGTCTTTGTGTGTTTTGTTGCGGCATGTGTGTGCTTGCTGTGC CTGCACATTCATGAGCCTGAGAGAGCATCTTTGATGTGATTTGTGTTTGGTGTATGTATCTGGGCGAG GGAGTGTTCCTGCTCTTGAGGGTCTACGCTGTGAATGCAGCTTTTGGTTTGTGTTTCTTTGCTTGTGCAT ATATTTTGTGTCATACATTTCTGTGGGCTCTACGTAGTGAAAGGAATTTCTTCTGCTTTTTTGTGCAT ACTGCCCATGAAACACGGCCCTCCCCAGCACCTGTTTTTGTGATTGTGTCTGTTTCATAGACGGGAAC GCTACTTATGAGTGCCATCTAAAAGTCAGAGAAAAGTGAATTTAAAATATTAAGGCCAGGGCCGGGG GCAGTGGCTCACGCTGTAAATCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACAAGTCAGGAGTT CAAGACCAGCCTGACCAACATGGTGAACCCCATCTCCACTAAAAATACCAAAATAGCCAAGCATGG TGGCAGGTGCCTGTAATCCAGCTGCTCAGGAGGCTGAGGCAGTAGAATCGCTTGAACCCAGGAGTAG AGGTTGCAGTGAGCCGACATCGTGCCATTGCACTCCAGCCTGGGTGACAGAGGGAGACTCTGTCTCAA ACAAACAAACAAACAAACAACTAAAGTCTGGGAGCAGTGGCTCATGCCTGTAATCACAGCAGTTTAGGAG GCCGAAGTGGGAGGATTACTTGAGCCTAGGAGTTGAGACCAGCCTGAGCATCATAGTAAGACCCCATC TCTACAATTTTTTTTTTGTGACAGAGTCTCACTCTGTTGCTCAGGTTAGAGTGCAGTGGCACCATTCTG GCTCACTGCAACCTCTGCCTCCCGGTTCAAGCAATTCTCGTGCTACGCCCCCTGAGTAGCTGGGATT ACAGGTGAGCACCACCGCCTGGCTAATTTTTGTTTTTTTGTGTTTTTGTATACAGAGTCTCACTCTGT TGCTCAGGCTGGAGTGAGTGGCATGATCGCAGCTCACTGCAACCTCCGCTCCTGGGTTCAAGCTATT CTCCTGCTTCAGCCTCCTGAGTAGCTGGGACTACAGGCACCTGCCACCATGCCTGGCTAATTTTTGTAT TTTTAGTAGAAACAGAGTTTACCATGTTGGCCAGGATGGTCTCAATCTCTTGACCTCATGATCCACCC ACCTTGGCCTCCCAAAGTCTGGGATTACAGGCGTCAGCCACCACGCCTGGCCAATTTTTGTATTTTA GTAGAGATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCAAACCTCTGGCCTCAAATGATCTGCCACC TCAGCCTTCCAGCCTTTGGGAGGCCAAGGAGGGAGGATCGCTTGAGGCCAGGAGTTCGAGACCAGCCTA GGCAACATACCAAGGCCCTGTCTCTACAAAAATTTAAAAATAGCAAAGCATGGTGGCTCATGCCTGTA GTCCTAGTTGCTCAGAGGCTGAAGTTGGAGGATCCCTTGAACCCAGTTGGAGGCTACAGTAAGCCATGA TGGTGCCACTGCACTGCAGCCTGAGCAATAGAGTGAAACCATGTATTGAAAAAGAAAGAAAGAAAGAA ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001042483.2</u>

Summary:

Transcription regulator that converts stress signals into a program of gene expression that empowers cells with resistance to the stress induced by a change in their microenvironment. Thereby participates in regulation of many process namely cell-cycle, apoptosis, autophagy and DNA repair responses (PubMed:16478804, PubMed:19650074, PubMed:16300740, PubMed:19723804, PubMed:11056169, PubMed:22858377, PubMed:11940591, PubMed:18690848, PubMed:22565310, PubMed:20181828, PubMed:30451898). Controls cell cycle progression and protects cells from genotoxic stress induced by doxorubicin through the complex formation with TP53 and EP300 that binds CDKN1A promoter leading to transcriptional induction of CDKN1A (PubMed:18690848). Protects pancreatic cancer cells from stress-induced cell death by binding the RELB promoter and activating its transcription, leading to IER3 transactivation (PubMed:22565310). Negatively regulates apoptosis through interaction with PTMA (PubMed:16478804). Inhibits autophagy-induced apoptosis in cardiac cells through FOXO3 interaction, inducing cytoplasmic translocation of FOXO3 thereby preventing the FOXO3 association with the pro-autophagic BNIP3 promoter (PubMed:20181828). Inhibits cell growth and facilitates programmed cell death by apoptosis after adriamycin-induced DNA damage through transactivation of TP53 (By similarity). Regulates methamphetamine-induced apoptosis and autophagy through DDIT3-mediated endoplasmic reticulum stress pathway (By similarity). Participates to DNA repair following gamma-irradiation by facilitating DNA access of the transcription machinery through interaction with MSL1 leading to inhibition of histone H4' Lys-16' acetylation (H4K16ac) (PubMed:19650074). Coactivator of PAX2 transcription factor activity, both by recruiting EP300 to increase PAX2 transcription factor activity and by binding PAXIP1 to suppress PAXIP1-induced inhibition on PAX2 (PubMed:11940591). Positively regulates cell cycle progression through interaction with COPS5 inducing cytoplasmic translocation of CDKN1B leading to the CDKN1B degradation (PubMed:16300740). Coordinates, through its interaction with EP300, the association of MYOD1, EP300 and DDX5 to the MYOG promoter, leading to inhibition of cell-cycle progression and myogenic differentiation promotion (PubMed:19723804). Negatively regulates beta cell proliferation via inhibition of cell-cycle regulatory genes expression through the suppression of their promoter activities (By similarity). Also required for LHB expression and ovarian maturation (By similarity). Exacerbates CNS inflammation and demyelination upon cuprizone treatment (By similarity). [UniProtKB/Swiss-Prot Function]

Locus ID:

26471

MW:

73.6