MINA cDNA Clone – MYC Induced Nuclear Antigen (Human)

PRODUCT OVERVIEW

Product Name	MINA, cDNA Clone
Full Product Name	MINA cDNA Clone
Product Gene Name	MINA cdna clone
Sequence	atgccaaaga aagcaaagcc tacagggagt gggaaggaag aggggccggc tccctgtaag cagatgaagt tagaagcagc tgggggggcct tcagctttaa actttgacag tcccagtagt ctctttgaaa gtttaatctc gcccatcaag acagagactt ttttcaagga attctgggag cagaagcccc ttctcattca gagagatgac cctgcactgg ccacatacta tgggtccctg ttcaagctaa cagatctgaa gagtctgtgc agccgggggga tgtactatgg aagagatgtg aatgtctgcc ggtgtgtcaa tgggaagaag aaggttttaa ataaagatgg caaagcacac tttcttcagc tgagaaaaga ttttgatcag aaaagggcaa cgattcagtt tcaccaacct cagagattta aggatgagct ttggaggatc caggagaagc tggaatgtta ctttggctcc ttggttggct cgaatgtgta cataactccc gcaggatctc agggcctgcc gccccattat gatgatgtcg aggttttcat cctgcagctg gagggagaga aacactggcg cctctaccac cccactgtgc ccctggcacg agagtacagc gtggaggccg aggaaaggat cggcaggccg gtgcatgagt ttatgctgaa gccgggtgat ttgttgtact ttcccagagg aaccattcat caagcggaca ctcctgcggg gctggcccac tcgactcacg tgaccatcag cacctaccag aacaattcat ggggagattt ccttttggat accatctcgg ggcttgtatt tgatactgca aaggaagacg tggagttacg gaccggcata ccccggcagc tgctcctgca ggtggaatcc acaactgttg ctacaagacg attaagtggc ttcctgagga cacttgcaga ccggctggag ggcaccaaag aactgctttc ctcagacatg aagaaggatt ttattatgca cagactcccc ccttactctg cgggagatgg ggcagagctg tcaacaccag gtggaaagtt accgaggctg gacagtgtag tgagactgca gtttaaagac cacattgtcc tcacagtact gccggatcaa gatcaatctg atgaaactca agaaaagatg gtgtacatct atcattcctt aaagaatagt agagagacac acatgatggg aaatgaggag gaaacagagt ttcatggact tcgcttccct ttgtcacatt tggatgcact gaagcaaatt tggaatagtc cagctatttc tgtcaaggac ctgaaactta ctacagatga ggaaaaggaa agcctggtat tatccctctg gacagaatgt ttaattcaag tagtctag
Molecular Weight	52,672 Da
OMIM	612049
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MINA cdna clone	MBS1268144 is a cDNA clone targeting MINA.
Other Notes	Small volumes of MINA cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MINA. It may not necessarily be applicable to this product.

NCBI GI #	15928920
NCBI GeneID	84864
NCBI Accession #	BC014928
UniProt Secondary Accession #	Q6AHW4; Q6SKS0; Q8IU69; Q8IUF6; Q8IUF7; Q96C17; Q96KB0; D3DN35
UniProt Related Accession #	Q8IUF8
NCBI Official Full Name	Homo sapiens MYC induced nuclear antigen, mRNA
NCBI Official Synonym Full Names	MYC induced nuclear antigen
NCBI Official Symbol	MINA

NCBI Official Synonym Symbols	ROX; MDIG; NO52; MINA53
UniProt Protein Name	Bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA
UniProt Synonym Protein Names	60S ribosomal protein L27a histidine hydroxylase; Histone lysine demethylase MINA; MYC-induced nuclear antigen; Mineral dust-induced gene protein; Nucleolar protein 52; Ribosomal oxygenase MINA; ROX
Protein Family	Bifunctional lysine-specific demethylase and histidyl-hydroxylase
UniProt Gene Name	MINA
UniProt Synonym Gene Names	ROX
UniProt Entry Name	MINA_HUMAN
NCBI Protein Information	bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA
NCBI Summary for MINA	MINA is a c-Myc (MYC; MIM 190080) target gene that may play a role in cell proliferation or regulation of cell growth. (Tsuneoka et al., 2002 [PubMed 12091391]; Zhang et al., 2005 [PubMed 15897898]).[supplied by OMIM, May 2008]
UniProt Comments for MINA	MINA: Involved in cellular proliferation. May play an important role in cell growth and survival. May be involved in ribosome biogenesis, most likely during the assembly process of pre-ribosomal particles. Belongs to the MINA53/NO66 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus Chromosomal Location of Human Ortholog: 3q11.2 Cellular Component: cytoplasm; nucleolus; nucleus Molecular Function: iron ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors Biological Process: negative regulation of transcription, DNA-dependent; peptidyl-amino acid modification; post-translational protein modification; ribosome biogenesis and assembly
Research Articles on MINA	**1.** Data suggest that mineral dust-induced gene protein (mdig) accomplishes its functions on chromatin, DNA repair and cell growth through interacting with the partner proteins.
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