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Product datasheet for RC203231

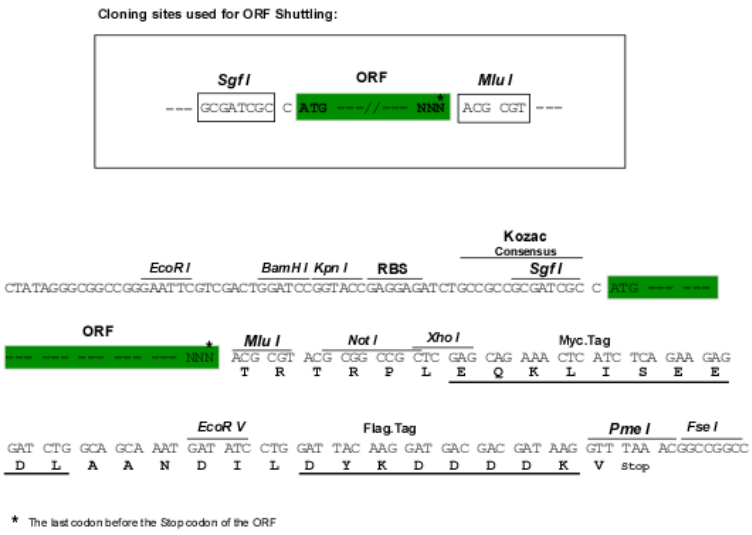
ENY2 (NM_020189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENY2 (NM_020189) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENY2
Synonyms:	DC6; e(y)2; Sus1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203231 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGGTTAGCAAGATGAACAAAGATGCGCAGATGAGAGCAGCGATTAACCAAAAGTTGATAGAAACTG GAGAAAGAGAACGCCTCAAAGAGTTGCTGAGAGCTAAATTAATTGAATGTGGCTGGAAGGATCAGTTGAA GGCACACTGTAAAGAGGTAATTAAAGAAAAAGGACTAGAACACGTTACTGTTGATGACTTGGTGGCTGAA ATCACTCCAAAAGGCAGAGCCCTGGTACCTGACAGTGTAAAGAAGGAGCTCCTACAAAGAATAAGAACAT TCCTTGCTCAGCATGCCAGCCTT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC203231 protein sequence Red=Cloning site Green=Tags(s) MVVSKMNKDAQMRAAINQKLIETGERERLKELLRAKLIECGWKDQLKAHCKEVIKEKGLEHVTVDDLVAE ITPKGRALVPDSVKKELLQRIRTFLAQHASL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6078_d04.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_020189
ORF Size:	303 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_020189.6
RefSeq Size:	2948 bp
RefSeq ORF:	306 bp
Locus ID:	56943

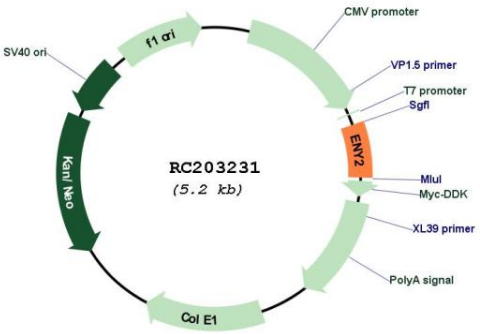
UniProt ID: Q9NPA8

Cytogenetics: 8q23.1

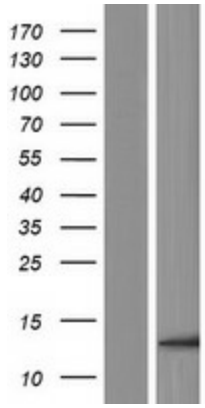
MW: 11.5 kDa

Gene Summary: Involved in mRNA export coupled transcription activation by association with both the TREX-2 and the SAGA complexes. The transcription regulatory histone acetylation (HAT) complex SAGA is a multiprotein complex that activates transcription by remodeling chromatin and mediating histone acetylation and deubiquitination. Within the SAGA complex, participates in a subcomplex that specifically deubiquitinates both histones H2A and H2B. The SAGA complex is recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation (PubMed:18206972, PubMed:21746879). As a component of the TREX-2 complex, involved in the export of mRNAs to the cytoplasm through the nuclear pores (PubMed:23591820). [UniProtKB/Swiss-Prot Function]

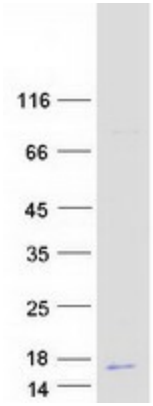
Product images:



Circular map for RC203231



Western blot validation of overexpression lysate (Cat# [LY412611]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203231 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ENY2 protein (Cat# [TP303231]). The protein was produced from HEK293T cells transfected with ENY2 cDNA clone (Cat# RC203231) using MegaTran 2.0 (Cat# [TT210002]).