OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC226603

DAXX (NM_001141969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAXX (NM_001141969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAXX
Synonyms:	BING2; DAP6; EAP1; SMIM40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC226603 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCGCTAACAGCATCATCGTGCTGGATGATGATGACGAAGATGAAGCAGCTGCTCAGCCAGGGC
CCTCCCACCCACTCCCCAATGCGGCCTCACCTGGGGCAGAAGCCCCTAGCTCCTCTGAGCCTCATGGGGC
CAGAGGAAGCAGTAGTTCGGGCGGCAAGAAATGCTACAAGCTGGAGAATGAGAAGCTGTTCGAAGAGTTC
CTTGAACTTTGTAAGATGCAGACAGCAGACCACCCTGAGGTGGTCCCATTCCTCTATAACCGGCAGCAAC
GTGCCCACTCTCTGTTTTTGGCCTCGGCGGAGTTCTGCAACATCCTCTCTAGGGTCCTGTCTCGGGCCCG
GAGCCGGCCAGCCAAGCTCTATGTCTACATCAATGAGCTCTGCACTGTTCTCAAGGCCCACTCAGCCAAA
AAGAAGCTGAACTTGGCCCCTGCCGCCACCACCTCCAATGAGCCCTCTGGGAATAACCCTCCCACACACC
TCTCCTTGGACCCCACAAATGCTGAAAACACTGCCTCTCAGTCTCCAAGGACCCGTGGTTCCCGGCGGCA
GATCCAGCGTTTGGAGCAGCTGCTGGCGCTCTATGTGGCAGAGATCCGGCGGCTGCAGGAAAAGGAGTTG
GATCTCTCAGAATTGGATGACCCAGACTCCGCATACCTGCAGGAGGCACGGTTGAAGCGTAAGCTGATCC
GCCTCTTTGGGCGACTATGTGAGCTGAAAGACTGCTCTTCACTGACCGGCCGTGTCATAGAGCAGCGCAT
CCCCTACCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAACAAGCCAGGGCCT
GATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAAGGCAGCTGCCCGACACAGCCTTGGCC
TCCCCCGACAGCAGCTCCAGCTCATGGCTCAGGATGCCTTCCGAGATGTGGGCATCAGGTTACAGGAGCG
ACGTCACCTCGATCTCATCTACAACTTTGGCTGCCACCTCACAGATGACTATAGGCCAGGCGTTGACCCT
GCACTATCAGATCCTGTGTTGGCCCGGCGCCTTCGGGAAAACCGGAGTTTGGCCATGAGTCGGCTGGATG
AGGTCATCTCCAAATACGCAATGTTGCAAGACAAAAGTGAGGAGGGCGAGAGAAAAAAGAGAAGAGCTCG
GCTCCAAGGCACCTCTTCCCACTCTGCAGACACCCCCGAAGCCTCCTTGGATTCTGGTGAGGGCCCTAGT
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TCAGCAGATCTTCAGGGGAGCAGCAAAACAAAGGACGCATAGTGTCACCATCGTTACTGTCAGAAGAACC
CCTGGCCCCCTCCAGCATAGATGCTGAAAGCAATGGAGAACAGCCTGAGGAGCTGACCCTGGAGGAAGAA
AGCCCTGTGTCTCAGCTCTTTGAGCTAGAGATTGAAGCTTTGCCCCTGGATACCCCTTCCTCTGTGGAGA
CGGACATTTCCTCTTCCAGGAAGCAATCAGAGGAGCCCTTCACCACTGTCTTAGAGAATGGAGCAGGCAT
GGTCTCTTCTACTTCCTTCAATGGAGGCGTCTCTCCTCACAACTGGGGAGATTCTGGTCCCCCCTGCAAA
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CAGTGCATGAGAAGAATGGGAAAAAGATATGTACCCTGCCCAGCCCACCTTCCCCCTTGGCTTCCTTGGC
CCCAGTTGCTGATTCCTCCACGAGGGTGGACTCTCCCAGCCATGGCCTGGTGACCAGCTCCCTCTGCATC
CCTTCTCCAGCCCGGCTGTCCCAAACCCCCCATTCACAGCCTCCTCGGCCTGGTACTTGCAAGACAAGTG
TGGCCACACAATGCGATCCAGAAGAGATCATCGTGCTCTCAGACTCTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226603 protein sequence
Red=Cloning site Green=Tags(s)

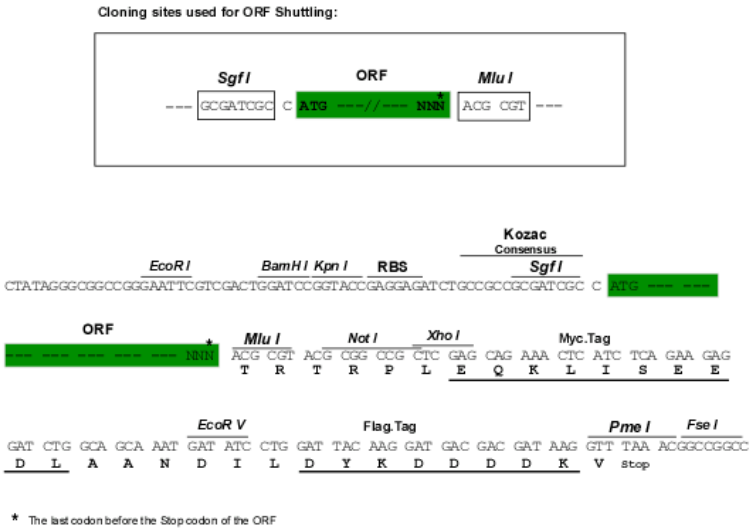
MATANSIIVLDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSGGKKCYKLENEKLFEEF
LELCKMQTADHPEVVPFLYNRQQRAHSLFLASAEFCNILSRVLSRARSRPAKLYVYINELCTVLKAHSAK
KKLNLAPAATTSNEPSGNNPPTHLSLDPTNAENTASQSPRTRGSRRQIQRLEQLLALYVAEIRRLQEKEL
DLSELDDPDSAYLQEARLKRKLIRLFGRLCELKDCSSLTGRVIEQRIPYRGTRYPEVNRRIERLINKPGP
DTFPDYGDVLRAVEKAAARHSLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHLTDDYRPGVDP
ALSDPVLARRLRENRSLAMSRLDEVISKYAMLQDKSEEGERKKRRARLQGTSSHSADTPEASLDSGEGPS
GMASQGCPSASRAETDDEDDEESDEEEEEEEEEEEEEATDSEEEEDLEQMQEGQEDDEEEDEEEEAAAGK
DGDKSPMSSLQISNEKNLEPGKQISRSSGEQQNKGRIVSPSLLSEEPLAPSSIDAESNGEQPEELTLEEE
SPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTVLENGAGMVSSTSFNGGVSPHNWGDSGPPCK
KSRKEKKQTGSGPLGNSYVERQRSVHEKNGKKICTLPSPPSPLASLAPVADSSTRVDSPSHGLVTSSLCI
PSPARLSQTPHSQPPRPGTCKTSVATQCDPEEIIVLSDSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6043_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



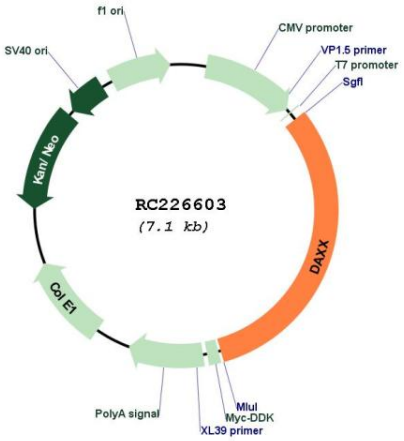
ACCN: NM_001141969

ORF Size: 2220 bp

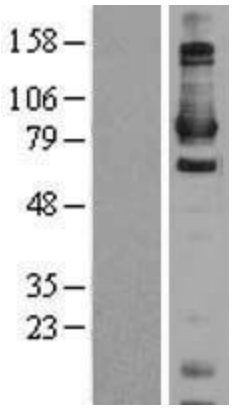
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001141969.1, NP_001135441.1
RefSeq Size:	2632 bp
RefSeq ORF:	2223 bp
Locus ID:	1616
UniProt ID:	Q9UER7
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), MAPK signaling pathway
MW:	81.4 kDa

Gene Summary: This gene encodes a multifunctional protein that resides in multiple locations in the nucleus and in the cytoplasm. It interacts with a wide variety of proteins, such as apoptosis antigen Fas, centromere protein C, and transcription factor erythroblastosis virus E26 oncogene homolog 1. In the nucleus, the encoded protein functions as a potent transcription repressor that binds to sumoylated transcription factors. Its repression can be relieved by the sequestration of this protein into promyelocytic leukemia nuclear bodies or nucleoli. This protein also associates with centromeres in G2 phase. In the cytoplasm, the encoded protein may function to regulate apoptosis. The subcellular localization and function of this protein are modulated by post-translational modifications, including sumoylation, phosphorylation and polyubiquitination. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]

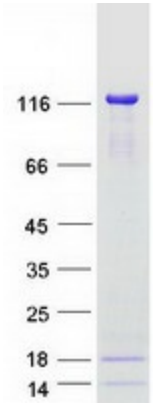
Product images:



Circular map for RC226603



Western blot validation of overexpression lysate (Cat# [LY427986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226603 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DAXX protein (Cat# [TP326603]). The protein was produced from HEK293T cells transfected with DAXX cDNA clone (Cat# RC226603) using MegaTran 2.0 (Cat# [TT210002]).