

Product datasheet for **RC219497**

DAXX (NM_001350) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAXX (NM_001350) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RC219497 representing NM_001350
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCCACCGCTAACAGCATCATCGTGCTGGATGATGATGACGAAGATGAAGCAGCTGCTCAGCCAGGGC
CCTCCCACCCACTCCCAATGCGGCCTCACCTGGGGCAGAAGCCCTAGCTCCTCTGAGCCTCATGGGGC
CAGAGGAAGCAGTAGTTCGGGGCGCAAGAAATGCTACAAGCTGGAGAATGAGAAGCTGTTGGAAGAGTTC
CTTGAACCTTTGTAAGATGCAGACAGCAGACCACCCTGAGGTGGTCCCATTCTCTATAACCGGCAGCAAC
GTGCCACTCTCTGTTTTGGCCTCGGGGAGTCTGCAACATCTCTCTAGGGTCTGTCTCGGGCCCG
GAGCCGGCCAGCCAAGCTCTATGTCTACATCAATGAGCTCTGCACTGTTCTCAAGGCCACTCAGCCAAA
AAGAAGCTGAACCTGGCCCTGCCGCCACCACCTCCAATGAGCCCTCTGGGAATAACCCTCCCACACACC
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GCCTCTTTGGGGGACTATGTGAGCTGAAAGACTGCTCTTCACTGACCGGCGGTGTATAGAGCAGGGCAT
CCCCTACCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAACAAGCCAGGGCCT
GATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAAGGCAGCTGCCCGACACAGCCTTGGCC
TCCCCGACAGCAGCTCCAGTCTATGGCTCAGGATGCCTTCCGAGATGTGGGCATCAGGTTACAGGAGCG
ACGTCACTCGATCTCATCTACAACCTTTGGCTGCCACCTCACAGATGACTATAGGCCAGGCGTTGACCCCT
GCATCTCAGATCCTGTGTTGGCCCGGCCTTCGGGAAAACCGGAGTTGGCCATGAGTCGGCTGGATG
GCTCAAGGCACCTCTTCCCACTCTGCAGACACCCCGAAGCCTCCTTGGATTCTGGTGAGGGCCCTAGT
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GGAACAGATGCAGGAGGGTCAAGAGGATGATGAAGAGGAGGACGAAGAGGAAGAAGCAGCAGCAGGTA
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TCAGCAGATCTCAGGGAGCAGCAAAACAAGGACGCATAGTGTACCATCGTTACTGTCAGAAGAACC
CCTGGCCCTCCAGCATAGATGCTGAAAGCAATGGAGAACAGCCTGAGGAGCTGACCCTGGAGGAAGAA
AGCCCTGTGTCTCAGCTCTTTGAGCTAGAGATTGAAGCTTTGCCCTGGATACCCCTTCTCTGTGGAGA
CGGACATTTCTTCCAGGAAGCAATCAGAGGAGCCCTTCAACCTGTCTTAGAGAATGGAGCAGGCGAT
GGTCTCTTCTACTTCTTCAATGGAGGCGTCTCTCCTCACAACTGGGGAGATTCTGGTCCCCCTGCAAA
AAATCTCGGAAGGAGAAGAAGCAAAACAGGATCAGGGCCATTAGGAAACAGCTATGTGAAAGGCAAGGT
CAGTGATGAGAAGAATGGGAAAAGATATGTACCCTGCCAGCCACCTTCCCCCTTGGCTTCTTGGC
CCCAGTTGCTGATTCTCCACGAGGGTGGACTCTCCAGCCATGGCCTGGTGACCAGCTCCCTCTGCATC
CCTTCTCCAGCCCGGCTGTCCAAACCCCCATTACAGCCTCCTCGGCCTGGTACTTGCAAGACAAGTG
TGGCCACAATGCGATCCAGAAGAGATCATCGTGCTCTCAGACTCTGAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219497 representing NM_001350
Red=Cloning site Green=Tags(s)

MATANSIIVLDDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSGGKKCYKLENEKLFEEF
 LELCKMQTADHPEVVPFLYNRQQRASHLFLASAEFCNILSRVLSRARSRAKL VYVINELCTVLKAHSAK
 KKLNLAPAATTSNEPSGNNPPTHLSLDPTNAENTASQSPRTRGSRRIQRLEQLLALVYAEIRRLQEKEL
 DLSELDDPDSAYLQEARLKRKLI RLFGR LCELKDCSSLTGRVIEQRIPYRGTRYPEVNRRIERLINKPGP
 DTFDPYGDVLR AVEKAAARHSLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHL TDDYRPGVDP
 ALSDPVLARRLRENRLAMSRLDEVISKYAMLQDKSEEGERKKRRARLQGTSSHSADTPEASLDSGEGPS
 GMASQGCPSASRAETDDEDDEESDEEEEEEEEEEEATDSEEEEDLEQM QEGQEDDEEEDEEEAAAGK
 DGDKSPMSSLQISNEKNLEPGKQISRSSGEQNKGRIVSPSLLEEPLAPSSIDAESNGEQPEEL TLEEE
 SPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTVLENGAGMVSSTSFNGGVSPHNWGDSPGPPCK
 KSRKEKKQTGSGPLGNSYVERQSVHEKNGKKICTLPSPSPPLASLAPVADSSTRVDSPSHGLVTSSLCI
 PSPARLSQTPHSQPPRPGTCKTSVATQCDPEEIIIVLSDSD

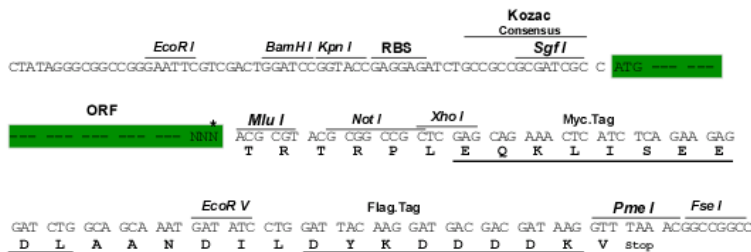
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001350

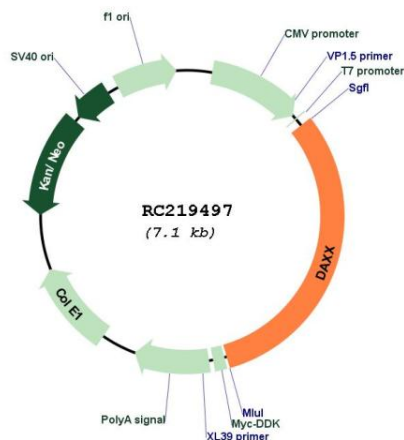
ORF Size: 2220 bp

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](#)

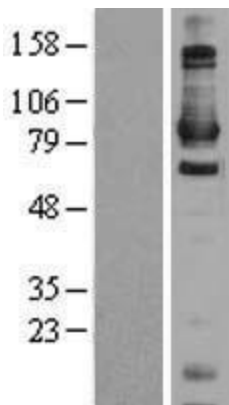
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_001350.5</u>
RefSeq Size:	2477 bp
RefSeq ORF:	2223 bp
Locus ID:	1616
UniProt ID:	<u>Q9UER7</u>
Cytogenetics:	6p21.32
Domains:	Daxx
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), MAPK signaling pathway
MW:	81.2 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]

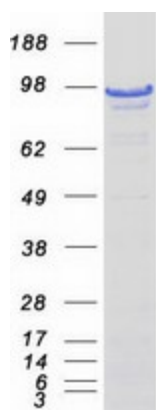
Product images:



Circular map for RC219497



Western blot validation of overexpression lysate (Cat# [LY427986]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected 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# [TP319497]). The protein was produced from HEK293T cells transfected with DAXX cDNA clone (Cat# RC219497) using MegaTran 2.0 (Cat# [TT210002]).