

Product datasheet for **RC227734**

XAB1 (GPNI) (NM_001145049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	XAB1
Synonyms:	ATPBD1A; MBDIN; NTPBP; RPAP4; XAB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC227734 representing NM_001145049
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTTCCTTTCTGCCAATATTGGTGATGAAATTTATTGAGAAGGCCAGAACATGTCCAATATG
TGTTGATTGACACACCTGGACAGATTGAGGTATTCACCTGGTCAGCTTCTGGGACAATTATCACTGAAGC
CCTTGATCCTCATTTCACACAGTTGTCTATGTAATGGACACATCGAGAAGTACCAACCCAGTGACC
TTCATGTCCAACATGCTCTATGCCTGCAGCATCTATACAAAACCAAGCTGCCTTTCATTGTGGTCATGA
ATAAACTGACATCATTGACCACAGCTTTGCAGTGGAATGGATGCAGGATTTTGAGGCTTTCCAAGATGC
CTTGAATCAAGAGACTACATACGTCAGTAACCTGACTCGTTCAATGAGCCTGGTGTAGATGAGTTTAC
AGCTCACTCAGGGTGGTGGTGTCTCTGCTGTTCTGGGACTGGATTAGATGAACCTTTGTGCAAGTTA
CCAGTGCTGCCGAAGAATATGAAAGGGAGTATCGTCTGAATATGAACGCTGAAAAATCACTGGCCAA
CGCAGAGAGCCAACAGCAGAGAGAACTGGAACGCCTTCGAAAAGATATGGGTTCTGTAGCCTTGGAT
GCAGGGACTGCCAAGACAGCTTATCTCCTGTGCTGCACCTTCTGATTTGATCCTGACTCGAGGAACCT
TGGATGAAGAGGATGAGGAAGCAGACAGGATACTGATGACATTGACCACAGAGTTACAGAGGAAAGCCA
TGAAGAGCCAGCATTCCAGAATTTATGCAAGAATCGATGGCACAATACTGGAAGAGAAACAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC227734 representing NM_001145049
Red=Cloning site Green=Tags(s)

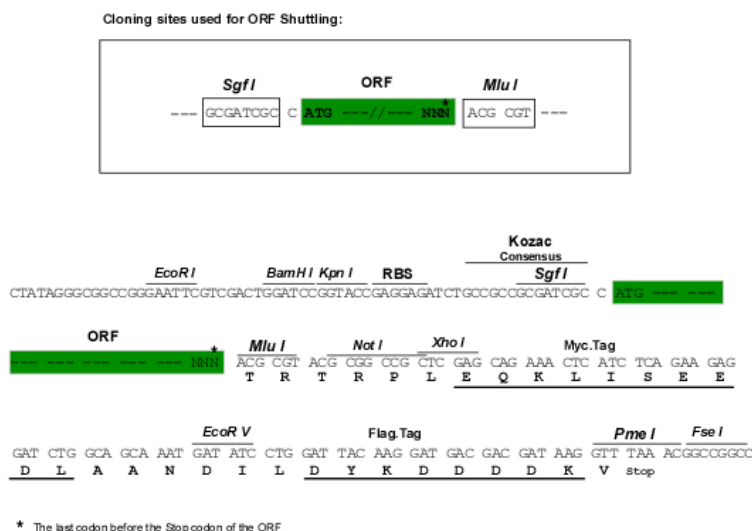
MKFPFLPILVMKFIEKAQNMISKYVLIDTPGGQIEVFTWSASGTIITEALASSFPTVVIVYVMDTSRSTNPVT
 FMSNMLYACISILYKTKLPFIVVMNKTDIIDHFSFAVEWMQDFEAFQDALNQETTYVSNLTRMSLVLDEFY
 SSLRVVGVSAVLGTGLDELFLVQVTSAAEEYEREYRPEYERLKKSLANAEQQQREQLERLRKDMGSVALD
 AGTAKDSLSPVLHPSDLILTRGTLDEEDFEADSDTDDIDHRVTEESHEEPAFONFMOESMAQYWKRNK

TRTRPLFOKLISEFDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8049_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145049

ORF Size: 837 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145049.1](#), [NP_001138521.1](#)

RefSeq ORF: 840 bp

Locus ID: 11321

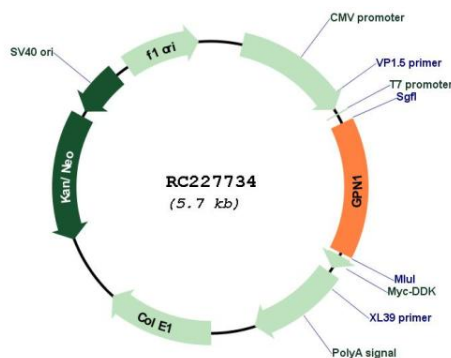
UniProt ID: [Q9HCN4](#)

Cytogenetics: 2p23.3

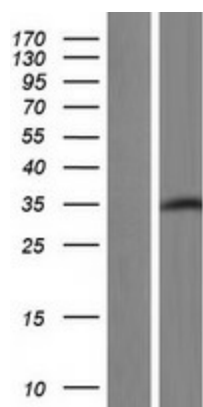
MW: 31.7 kDa

Gene Summary: This gene encodes a guanosine triphosphatase enzyme. The encoded protein may play a role in DNA repair and may function in activation of transcription. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RC227734



Western blot validation of overexpression lysate (Cat# [LY428663]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227734 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).