

Product datasheet for **RC203353**

XAB2 (NM_020196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XAB2 (NM_020196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	XAB2
Synonyms:	HCNP; HCRN; NTC90; SYF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC203353 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGTGATGGCGCGACTCTCGCGGCCAGCGGCCGGACCTTGTCTTCGAGGAAGAGGACCTCCCT
 ATGAGGAGGAAATCATGCGGAACCAATTCTGTCAAATGCTGGCTTCGCTACATCGAGTTCAAACAGGG
 CGCCCCGAAGCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCAGCTACAACTC
 TGGTACCGATACCTGAAGGCGCGTGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCTGCCTATGAAG
 ATGTCAACAACACTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACTG
 CCAGTTCTCATGGACCAGGGGCGCGTACACACACCCCGCCACCTTCGACCGTGCCCTCCGGGCACTG
 CCCATCACGCAGCACTCTCGAATTTGGCCCTGTATCTGCGCTTCTGCGCTCACACCCACTGCCTGAGA
 CAGCTGTGCGAGGCTATCGGCGCTTCTCAAGCTGAGTCTGAGAGTGCAGAGGAGTACATTGAGTACCT
 CAAGTCAAGTACCGGCTGGATGAGGCCGCCAGCGCTGGCCACCGTGGTGAACGACGAGCGTTTCGTG
 TCTAAGGCCGGCAAGTCCAACCTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCAGAAATCCGGACA
 AGGTACAGTCCCTCAATGTGGACGCCATCATCCGCGGGGGCTCACCCGCTTCACCGACCAGCTGGGCAA
 GCTCTGGTGTCTCTCGCCGACTACTACATCCGCAGCGGCCATTTGAGAAGGCTCGGGACGTGTACGAG
 GAGGCCATCCGGACAGTGATGACCGTGCGGGACTTCACACAGGTGTTTGACAGCTACGCCAGTTTCGAGG
 AGAGCATGATCGCTGCAAAGATGGAGACCGCTCGGAGCTGGGGCGCGAGGAGGAGGATGATGTGGACCT
 GGAGCTGCGCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGCCCTGCTCCTCAACAGCGTCTTGCTG
 CGCCAAAACCCACACCAGTGCACGAGTGGCACAAGCGTGTGCGCCTGCACCAGGGCCGCCCGGGGAGA
 TCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAGGCAAGCCCACTCT
 GTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCTCTGGAGAAG
 GCCACCAAGTGAACCTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTGAGTGCAGGAGAGCTGGAGC
 TCCGACACGAGAACTACGATGAGGCCTTGGCGTGTGCGAAAGGCCACGGCGCTGCCTGCCCGCCGGGC
 CGAGTACTTTGATGGTTCAGAGCCCGTGCAGAACCAGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTC
 GCCGACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCTGGACCTGC
 GTATCGCAACACCCAGATCGTCATCAACTATGCCATGTTCTGGAGGAGCACAAGTACTTCGAGGAGAG
 CTTCAAGGCGTACGAGCGCGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTAC
 CTGACCAATTCATTGCCCGCTATGGGGCCGCAAGCTGGAGCGGCACGGGACCTGTTTGAACAGGCTC
 TGGACGGCTGCCCCCAAATATGCCAAGACCTTGTACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGG
 CCTGGCCCGCATGCCATGGCCGTGTACGAGCGTGCCACCAAGGCCGTGGAGCCCGCCAGCAGTATGAC
 ATGTTCAACATCTACATCAAGCGGGCGGCCGAGATCTATGGGGTCACCCACCCCGGCCATCTACCAGA
 AGGCCATTGAGGTGCTGTGCGACGAGCAGCGCGTGTGAGATGTGCCTGCGGTTTGCAGACATGGAGTGAA
 GCTCGGGGAGATTGACCGCGCCCGGCCATCTACAGCTTCTGCTCCAGATCTGTGACCCCGGACGACC
 GGCGGCTTCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATGAGGACACCATCAAGGAAATGC
 TGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGAGGTCAACTTCATGGCCTCGCAGATGCTCAA
 GGTTCTCGGGCAGTGCCACGGGCACCGTGTCTGACCTGGCCCTGGCAGAGTGGCATGGACGACATGAAG
 CTGCTGGAACAGCGGGCAGAGCAGCTGGCGGTGAGGCGGAGCGTGACCAGCCCTTGCAGCGCCAGAGCA
 AGATCCTGTTCTGAGGAGTACGCCTCCCGGGAGGAGTGGCAGAGCTGGCACAGCAGGTCAACCCCGA
 GGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTGCGCTGGAG
 CAGCAGAGCGTGCCAGCCGACGTGTTGGGAGCCTGAAGGAAGAC

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203353 protein sequence
 Red=Cloning site Green=Tags(s)

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKL
 WYRYLKARRAQVKHRCVTDPAEDVNNCHERAFVFMHKMPRLWLDYCFQFLMDQGRVTHTRTFDRALRAL
 PITQHSRIWPLYRFLRSHPLPETAVRGYRRFLKLSPEAAEYIEYLKSSDRDLDEAAQRLATVVNDERFV
 SKAGKSNYQLWHELCDLISQNPDKVQSLNVDIIRGGLTRFTDQLGKLWCSLADYYIRSGHF EKARDVYE
 EAIRTVMTVRDF TQVFD SYAQFEESMIAAKMETASELGREEEDVDLELRARFEQLISRRPLLLNSVLL
 RQNP HHVHEWHKRVALHQGRPREIINTYTEAVQTVDPFKATGKPHTLWVAFK FYEDNGQLDDARVILEK
 ATKVNFQVDDLASVWCQCGEELRHENYDEALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSML
 ADLEESLGTGFQSTKAVYDRILDRIATPQIVINYAMFLEEHKYFEESFKAYERGISLFWPNVSDIWSTY
 LTKFIARYGGRKLERARDLFEQALDGCPPKYAKTYLLYAQLEEEWGLARHAMAVYERATRAVEPAQQYD
 MFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADMECKLGEIDRARAIYSFCSQICDPRTT
 GAFWQTKWDFEVRHGNETIKEMLRIRRSVQATYNTQVNFMASQMLKVSQSATGTVSDLPAGQSGMDDMK
 LLEQRAEQLAEEAERDQPLRAQSKILFVRSASREELAEAAQQVNPEEIQLGEDEDEMDLEPNEVRLE
 QQSVPAAVFGSLKED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6691_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

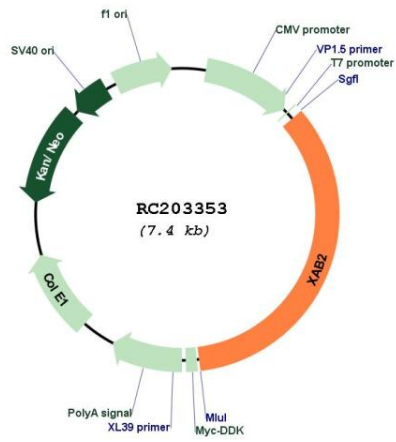
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_020196
ORF Size:	2565 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:	NM_020196.3
RefSeq Size:	2682 bp
RefSeq ORF:	2568 bp
Locus ID:	56949
UniProt ID:	Q9HCS7
Cytogenetics:	19p13.2
Domains:	HAT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Spliceosome
MW:	100 kDa
Gene Summary:	Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:28502770, PubMed:28076346). Involved in transcription-coupled repair (TCR), transcription and pre-mRNA splicing (PubMed:10944529, PubMed:17981804). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203353