

Product datasheet for RC240221

BAZ2A (NM_001300905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAZ2A (NM_001300905) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAZ2A
Synonyms:	TIP5; WALp3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240221 representing NM_001300905 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGGATCGCC**

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CTCCTTCTCAGGGGAGGGCCTTACACTAACGGGTCTCCCATGAACTTCCCCAGCAAGGAAAAGTTT
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Protein Sequence:

>RC240221 representing NM_001300905
 Red=Cloning site Green=Tags(s)

MEANDHFNTGLPPAPAASGLKPSPPSSGEGLYTNNGSPMNFQQGKSLNGDVNVNGLSTVSHTTTSGILNS
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 FSEGDGRRRRVLLRGRESAAGPRYSEGLSPSKRRRLSMRNHSDLTFCEIILMEMESHDAAWPFLEPV
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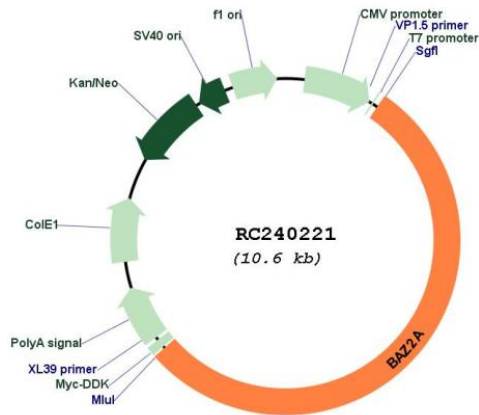
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300905

ORF Size: 5709 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_001300905.2
RefSeq Size:	8943 bp
RefSeq ORF:	5712 bp
Locus ID:	11176
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome
MW:	211.4 kDa
Gene Summary:	Essential component of the NoRC (nucleolar remodeling complex) complex, a complex that mediates silencing of a fraction of rDNA by recruiting histone-modifying enzymes and DNA methyltransferases, leading to heterochromatin formation and transcriptional silencing. In the complex, it plays a central role by being recruited to rDNA and by targeting chromatin modifying enzymes such as HDAC1, leading to repress RNA polymerase I transcription. Recruited to rDNA via its interaction with TTF1 and its ability to recognize and bind histone H4 acetylated on 'Lys-16' (H4K16ac), leading to deacetylation of H4K5ac, H4K8ac, H4K12ac but not H4K16ac. Specifically binds pRNAs, 150-250 nucleotide RNAs that are complementary in sequence to the rDNA promoter; pRNA-binding is required for heterochromatin formation and rDNA silencing (By similarity).[UniProtKB/Swiss-Prot Function]