

Product datasheet for **RG240221**

BAZ2A (NM_001300905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAZ2A (NM_001300905) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAZ2A
Synonyms:	TIP5; WALp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240221 representing NM_001300905. Blue=ORF Red=Cloning site Green=Tag(s)

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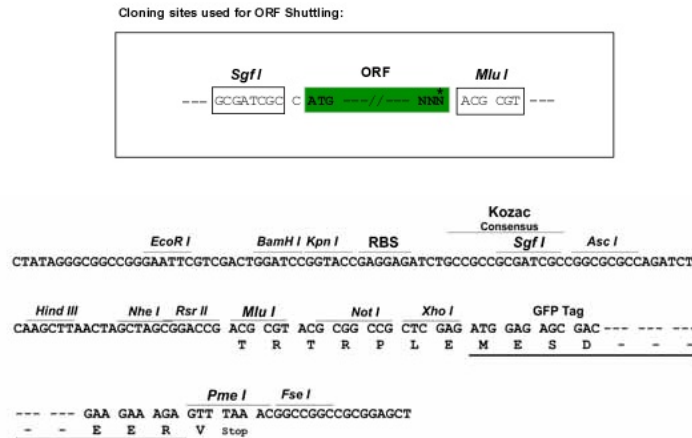
Protein Sequence:

>Peptide sequence encoded by RG240221
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites:

SgfI-MluI

Cloning Scheme:


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).

RefSeq: [NM_001300905.2](#)

RefSeq Size: 8943 bp

RefSeq ORF: 5712 bp

Locus ID: 11176

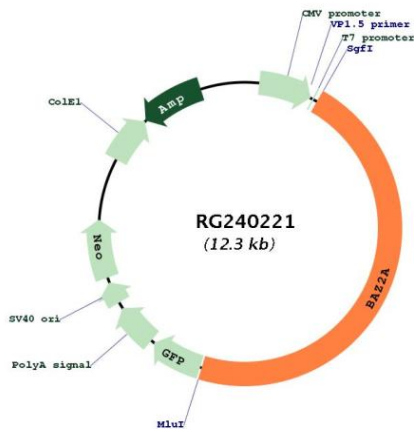
Cytogenetics: 12q13.3

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]

Product images:


Circular map for RG240221