

## Product datasheet for MR217962

### Setx (NM\_198033) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Setx (NM_198033) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Setx
Synonyms:	A130090N03; A930037J23Rik; Als4; AOA2; AW060766; mKIAA0625; SCAR1; Sen1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR217962 representing NM_198033 Red=Cloning site Blue=ORF Green=Tags(s)

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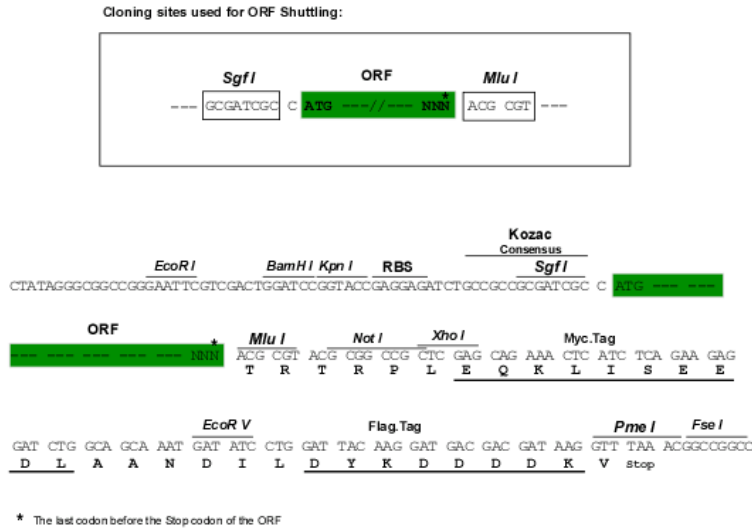
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 Red=Cloning site Green=Tags(s)

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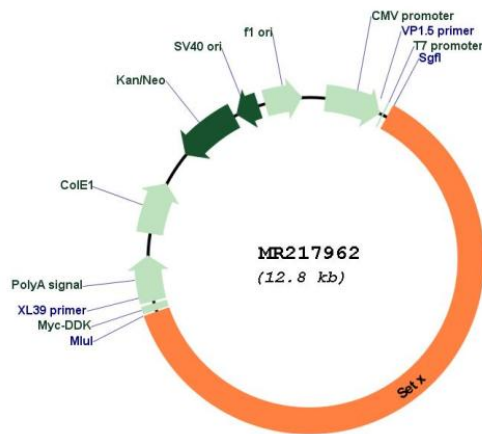
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Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_198033

ORF Size: 7938 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.

**RefSeq:** [NM\\_198033.2](#), [NP\\_932150.2](#)

**RefSeq Size:** 10970 bp

**RefSeq ORF:** 7941 bp

**Locus ID:** 269254

**UniProt ID:** [A2AKX3](#)

**Cytogenetics:** 2 B

**MW:** 298 kDa

**Gene Summary:** Probable RNA/DNA helicase involved in diverse aspects of RNA metabolism and genomic integrity. Plays a role in transcription regulation by its ability to modulate RNA Polymerase II (Pol II) binding to chromatin and through its interaction with proteins involved in transcription. Contributes to the mRNA splicing efficiency and splice site selection. Required for the resolution of R-loop RNA-DNA hybrid formation at G-rich pause sites located downstream of the poly(A) site, allowing XRN2 recruitment and XRN2-mediated degradation of the downstream cleaved RNA and hence efficient RNA polymerase II (RNAP II) transcription termination (By similarity). Required for the 3' transcriptional termination of PER1 and CRY2, thus playing an important role in the circadian rhythm regulation (PubMed:22767893). Involved in DNA double-strand breaks damage response generated by oxidative stress. In association with RRP45, targets the RNA exosome complex to sites of transcription-induced DNA damage (By similarity). Plays a role in the development and maturation of germ cells: essential for male meiosis, acting at the interface of transcription and meiotic recombination, and in the process of gene silencing during meiotic sex chromosome inactivation (MSCI) (PubMed:23593030). Plays a role in neurite outgrowth in hippocampal cells through FGF8-activated signaling pathways. Inhibits retinoic acid-induced apoptosis. May be involved in telomeric stability through the regulation of telomere repeat-containing RNA (TERRA) transcription (By similarity).[UniProtKB/Swiss-Prot Function]