

## Product datasheet for **MR220183L3V**

### Sars (NM\_011319) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Sars (NM_011319) Mouse Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Sars   |
| Synonyms:                 | Sars1; serRS; Strs   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_011319  |
| ORF Size:                 | 1608 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR220183).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_011319.3</a> , <a href="#">NP_035449.1</a>  |
| RefSeq Size:              | 3704 bp  |
| RefSeq ORF:               | 1611 bp  |
| Locus ID:                 | 20226  |
| Cytogenetics:             | 3 47.08 cM   |



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**Gene Summary:**

Catalyzes the attachment of serine to tRNA(Ser) in a two-step reaction: serine is first activated by ATP to form Ser-AMP and then transferred to the acceptor end of tRNA(Ser). Is probably also able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec). In the nucleus, binds to the VEGFA core promoter and prevents MYC binding and transcriptional activation by MYC. Recruits SIRT2 to the VEGFA promoter, promoting deacetylation of histone H4 at 'Lys-16' (H4K16). Thereby, inhibits the production of VEGFA and sprouting angiogenesis mediated by VEGFA.[UniProtKB/Swiss-Prot Function]