

## Product datasheet for **RC226229L3V**

### ARS2 (SRRT) (NM\_001128852) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Name:             | ARS2 (SRRT) (NM_001128852) Human Tagged ORF Clone Lentiviral Particle                                                                                                                                                                                                                                                                                                                                                                              |
| Symbol:                   | ARS2                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Synonyms:                 | ARS2; ASR2; serrate                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tag:                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ACCN:                     | NM_001128852                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ORF Size:                 | 2625 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC226229).                                                                                                                                                                                                                                                                                                                                                                                     |
| 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_001128852.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq ORF:               | 2628 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:                 | 51593                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt ID:               | <a href="#">Q9BXP5</a>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cytogenetics:             | 7q22.1                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MW:                       | 100.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                          |


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**Gene Summary:**

Acts as a mediator between the cap-binding complex (CBC) and the primary microRNAs (miRNAs) processing machinery during cell proliferation. Contributes to the stability and delivery of capped primary miRNA transcripts to the primary miRNA processing complex containing DGCR8 and DROSHA, thereby playing a role in RNA-mediated gene silencing (RNAi) by miRNAs. Binds capped RNAs (m7GpppG-capped RNA); however interaction is probably mediated via its interaction with NCBP1/CBP80 component of the CBC complex. Involved in cell cycle progression at S phase. Does not directly confer arsenite resistance but rather modulates arsenic sensitivity. Independently of its activity on miRNAs, necessary and sufficient to promote neural stem cell self-renewal. Does so by directly binding SOX2 promoter and positively regulating its transcription (By similarity).[UniProtKB/Swiss-Prot Function]