

## Product datasheet for **MR216329L4V**

### Tyw5 (NM\_001037742) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Tyw5 (NM_001037742) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Tyw5   |
| Synonyms:                 | 1110034B05Rik  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001037742   |
| ORF Size:                 | 948 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR216329).   |
| 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_001037742.2</a> , <a href="#">NP_001032831.2</a>  |
| RefSeq Size:              | 1448 bp  |
| RefSeq ORF:               | 948 bp   |
| Locus ID:                 | 68736  |
| UniProt ID:               | <a href="#">A2RSX7</a>   |
| Cytogenetics:             | 1 C1.3   |


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**Gene Summary:**

tRNA hydroxylase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. Catalyzes the hydroxylation of 7-(a-amino-a-carboxypropyl)wyosine (yW-72) into undermodified hydroxywybutosine (OHyW\*). OHyW\* being further transformed into hydroxywybutosine (OHyW) by LCMT2/TYW4. OHyW is a derivative of wybutosine found in higher eukaryotes (By similarity).[UniProtKB/Swiss-Prot Function]