

**Datasheet for WM4002-04-0500****WM4002 Purified RNA****Overview**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Description:</b> | WM4002 Purified RNA - WM4002-04-0500 |
| <b>Item No.:</b>    | WM4002-04-0500                       |
| <b>Size:</b>        | 10 µg                                |
| <b>Origin:</b>      | Human                                |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | Total RNA was prepared from cell line WM4002. WM4002 is a metastatic human melanoma cell line. This cell line features the specific V600E (Val600Glu) mutation at codon 600 in the BRAF gene. This mutation causes constitutively active kinase activity and activation of MEK and ERK signaling pathway. This cell line also expresses PTEN loss of function including hemizygous deletion and is wild type for N-RAS, c-KIT, and CDK4 genes. WM4002 cells produce xenograft tumors when injected into immunocompromised mice. |
| <b>Synonyms:</b>          | Melanoma, patient derived tumor, tumor models, skin cancer, xenograft                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                            |                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity/Specificity:</b> | Total RNA was extracted and purified from cells using RNA isolation & purification kit according to manufacturers instructions. The RNA was diluted to 200 ng/µL in RNase free water. Concentration was determined at A260 using nanodrop ND-1000. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">Cell Line EULA</a></li></ul>                                                                                                                                                                   |

**Application Details**

|                          |                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Note:</b> | Purified RNA is suitable for a number of molecular biology applications including but not limited to next generation sequencing and expression library construction, PCR, real-time PCR, microarray analysis, and transfection experiments. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                             |

## Cell Line Data

|                 |                     |
|-----------------|---------------------|
| Cell Line:      | Human Melanoma      |
| Product Type:   | RNA                 |
| Cell Viability: | No                  |
| Stage:          | Metastasis          |
| BRAF:           | V600E               |
| CDK4:           | WT                  |
| C-Kit:          | WT                  |
| N-RAS:          | WT                  |
| PTEN:           | Hemizygous Deletion |
| Paired:         | No                  |

## Formulation

|                 |                                             |
|-----------------|---------------------------------------------|
| Physical State: | Liquid                                      |
| Concentration:  | 200 ng / $\mu$ l by UV absorbance at 260 nm |
| Buffer:         | RNase free water                            |
| Preservative:   | None                                        |
| Stabilizer:     | None                                        |

## Shipping & Handling

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| Shipping Condition: | Dry Ice                                                                                                |
| Storage Condition:  | Store vial at -20° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| Expiration:         | Expiration date is six (6) months from date of receipt.                                                |

## Images

**Vial**

Total RNA from melanoma tumor cells for assessment of mRNA and miRNA

**Disclaimer**

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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