# ZMAT3 siRNA – Zinc Finger Matrin-Type Protein 3 (Rat)

## PRODUCT OVERVIEW

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| **Product Name** | ZMAT3, siRNA |
| **Full Product Name** | ZMAT3 siRNA (Rat) |
| **Product Gene Name** | ZMAT3 sirna |
| **Product Synonym Names** | PAG608; WIG1; Zinc finger matrin-type protein 3; Zinc finger protein WIG-1; p53-activated gene 608 protein |
| **Host** | Synthetic |
| **Species Reactivity** | Rat |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | ZMAT3 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 31,918 Da |
| **3D Structure** | ModBase 3D Structure for O08781 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat ZMAT3 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for ZMAT3 sirna** | RNA Interference (RNAi) |
| **Related Product Information for ZMAT3 sirna** | MBS8212776 is an siRNA targeting ZMAT3. Also known as ZMAT3 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit ZMAT3 expression using RNA interference |
| **Other Notes** | Small volumes of ZMAT3 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZMAT3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 11968146 |
| **NCBI GeneID** | 64394 |

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| **NCBI Accession #** | NP_071993.1 |
| **UniProt Primary Accession #** | O08781 |
| **UniProt Related Accession #** | O08781 |
| **GenBank Nucleotide #** | NM_022548.1 |
| **NCBI Official Full Name** | zinc finger matrin-type protein 3 |
| **NCBI Official Synonym Full Names** | zinc finger, matrin type 3 |
| **NCBI Official Symbol** | Zmat3 |
| **NCBI Official Synonym Symbols** | Wig1; PAG608 |
| **UniProt Protein Name** | Zinc finger matrin-type protein 3 |
| **UniProt Synonym Protein Names** | Zinc finger protein WIG-1; p53-activated gene 608 protein |
| **Protein Family** | Zinc finger matrin-type protein |
| **UniProt Gene Name** | Zmat3 |
| **UniProt Entry Name** | ZMAT3_RAT |
| **NCBI Protein Information** | zinc finger matrin-type protein 3 |
| **NCBI Summary for ZMAT3** | nuclear zinc finger protein; may play a role in facilitating the apoptotic activities of p53 [RGD, Feb 2006] |
| **UniProt Comments for ZMAT3** | Acts as a bona fide target gene of p53/TP53. May play a role in the TP53-dependent growth regulatory pathway. May contribute to TP53-mediated apoptosis by regulation of TP53 expression and translocation to the nucleus and nucleolus. |
| **Research Articles on ZMAT3** | **1.** The specific induction of PAG608 6-48h after L-DOPA injection in the extrapyramidal tracts, pyramidal tracts and corresponding lower motor neurons of the spinal cords suggests its involvement in molecular events in stimulated motor neurons. |
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