

# Product datasheet for TL302729V

## OTX2 Human shRNA Lentiviral Particle (Locus ID 5015)

## **Product data:**

| Product Type: | shRNA Lentiviral Particles  |
|---------------|---|
| Product Name: | OTX2 Human shRNA Lentiviral Particle (Locus ID 5015)  |
| Locus ID:     | 5015  |
| Synonyms:     | CPHD6; MCOPS5   |
| Vector:       | pGFP-C-shLenti (TR30023)  |
| Format:       | Lentiviral particles  |
| Components:   | OTX2 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.   |
| RefSeq:       | <u>NM 001270523, NM 001270524, NM 001270525, NM 021728, NM 172337, NR 073034,</u><br><u>NR 073036, NM 021728.1, NM 021728.2, NM 021728.3, NM 172337.1, NM 172337.2,</u><br><u>NM 001270523.1, NM 001270524.1, NM 001270525.1, BC032579, BC032579.1, NM 021728.4,</u><br><u>NM 001270524.2, NM 001270523.2, NM 172337.3, NM 001270525.2</u>  |
| UniProt ID:   | <u>P32243</u>   |
| Summary:      | This gene encodes a member of the bicoid subfamily of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and plays a role in brain, craniofacial, and sensory organ development. The encoded protein also influences the proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis. Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine. [provided by RefSeq, Jul 2012] |
| shRNA Design: | These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u> .<br>If you need a special design or shRNA sequence, please utilize our custom shRNA service.  |



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#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

#### **GRIGENE** OTX2 Human shRNA Lentiviral Particle (Locus ID 5015) – TL302729V

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

### **Product images:**



GFP signal was observed under microscope at 48 hours after transduction of TL302729A virus into HEK293 cells. TL302729A virus was prepared using lenti-shRNA TL302729A and [TR30037] packaging kit.

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GFP signal was observed under microscope at 48 hours after transduction of TL302729B virus into HEK293 cells. TL302729B virus was prepared using lenti-shRNA TL302729B and [TR30037] packaging kit.

GFP signal was observed under microscope at 48 hours after transduction of [TL302729C] virus into HEK293 cells. [TL302729C] virus was prepared using lenti-shRNA [TL302729C] and [TR30037] packaging kit.

GFP signal was observed under microscope at 48 hours after transduction of [TL302729D] virus into HEK293 cells. [TL302729D] virus was prepared using lenti-shRNA [TL302729D] and [TR30037] packaging kit.

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