PYGO2 siRNA – Pygopus Homolog 2 (Human)

PRODUCT OVERVIEW

Product Name	PYGO2, siRNA
Full Product Name	PYGO2 siRNA (Human)
Product Gene Name	PYGO2 sirna
Product Synonym Names	Pygopus homolog 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PYGO2 siRNA (Human) 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	41,244 Da
OMIM	606903
3D Structure	ModBase 3D Structure for Q9BRQ0
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 human PYGO2 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 PYGO2 sirna	RNA Interference (RNAi)
Related Product Information for PYGO2 sirna	MBS8202773 is an siRNA targeting PYGO2. Also known as PYGO2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit PYGO2 expression using RNA interference
Other Notes	Small volumes of PYGO2 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 PYGO2. It may not necessarily be applicable to this product.

NCBI GI #	23510333
NCBI GeneID	90780
NCBI Accession #	NP_612157.1
UniProt Primary Accession #	Q9BRQ0
UniProt Secondary Accession #	Q8WYZ4; Q96CY2
UniProt Related Accession #	Q9BRQ0
GenBank Nucleotide #	NM_138300.3
NCBI Official Full Name	pygopus homolog 2
NCBI Official Synonym Full Names	pygopus family PHD finger 2
NCBI Official Symbol	PYGO2
NCBI Official Synonym Symbols	1190004M21Rik
UniProt Protein Name	Pygopus homolog 2
Protein Family	Pygopus
UniProt Gene Name	PYGO2
UniProt Entry Name	PYGO2_HUMAN
NCBI Protein Information	pygopus homolog 2
UniProt Comments for PYGO2	PYGO2: Involved in signal transduction through the Wnt pathway. Protein type: Cell development/differentiation; Histone-binding Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: nucleoplasm Molecular Function: protein binding; zinc ion binding; histone acetyltransferase regulator activity; histone binding; chromatin binding Biological Process: lens development in camera-type eye; developmental growth; in utero embryonic development; spermatid nuclear differentiation; regulation of histone acetylation; palate development; Wnt receptor signaling pathway through beta-catenin; post-embryonic development; regulation of mammary gland epithelial cell proliferation; mammary gland development; regulation of histone H3-K4 methylation; brain development; kidney development
Research Articles on PYGO2	**1.** We conclude that abnormal Pygo2 protein expression may be a marker for advanced non-small cell lung cancer
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