PGBD2 siRNA – Piggybac Transposable Element-Derived Protein 2 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	PGBD2, siRNA
Full Product Name	PGBD2 siRNA (Human)
Product Gene Name	PGBD2 sirna
Product Synonym Names	PiggyBac transposable element-derived protein 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PGBD2 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	39,563 Da
3D Structure	ModBase 3D Structure for Q6P3X8
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 PGBD2 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 PGBD2 sirna	RNA Interference (RNAi)
Related Product Information for PGBD2 sirna	MBS8230359 is an siRNA targeting PGBD2. Also known as PGBD2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit PGBD2 expression using RNA interference
Other Notes	Small volumes of PGBD2 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 PGBD2. It may not necessarily be applicable to this product.

NCBI GI #	62953123

NCBI GeneID	267002
NCBI Accession #	NP_001017434.1
UniProt Primary Accession #	Q6P3X8
UniProt Secondary Accession #	Q6MZF8; B3KVR8
UniProt Related Accession #	Q6P3X8
GenBank Nucleotide #	NM_001017434.1
NCBI Official Full Name	piggyBac transposable element-derived protein 2 isoform b
NCBI Official Synonym Full Names	piggyBac transposable element derived 2
NCBI Official Symbol	PGBD2
UniProt Protein Name	PiggyBac transposable element-derived protein 2
Protein Family	PiggyBac transposable element-derived protein
UniProt Gene Name	PGBD2
UniProt Entry Name	PGBD2_HUMAN
NCBI Protein Information	piggyBac transposable element-derived protein 2
NCBI Summary for PGBD2	The piggyBac family of proteins, found in diverse animals, are transposases related to the transposase of the canonical piggyBac transposon from the moth, Trichoplusia ni. This family also includes genes in several genomes, including human, that appear to have been derived from the piggyBac transposons. This gene belongs to the subfamily of piggyBac transposable element derived (PGBD) genes. The PGBD proteins appear to be novel, with no obvious relationship to other transposases, or other known protein families. The exact function of this gene is not known. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for PGBD2	PGBD2: 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 1q44
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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