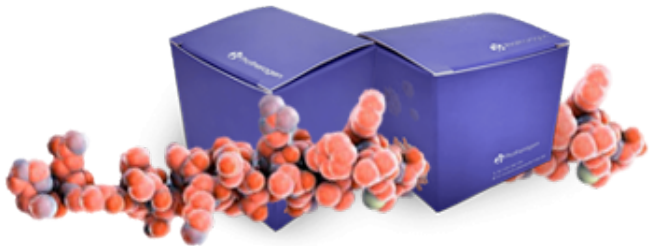
Protheragen Obesity



AdipoUpX™ Human RAB23 MSCV Particle (Overexpression)

Cat. No.:	V1225XX927
Species:	Human
Target Gene:	RAB23
Vector System:	MSCV Retrovirus
Modulation Type:	Overexpression

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	AdipoUpX™ Human RAB23 MSCV Particle (Overexpression) is a high-performance retro viral particle designed for stable expression of the human RAB23 gene. RAB23 reg ulates intracellular vesicle trafficking and has been linked to developmental an d metabolic processes influencing adiposity. The MSCV system enables robust gene integration in hematopoietic stem cells, stem cells, and diverse mammalian cell lines. Comprehensive quality control, including viral titer analysis and steril ity and mycoplasma testing, ensures consistent experimental outcomes.
Production Cell Line	HEK293T
Promoter	Ubi; CMV; EF1a; Others
Product Availability	Produced Upon Order

Specification

Titer Test	qPCR
Insert Verification	Final QC confirmed the correct molecular size and integrity of the insert throug h specific PCR amplification.
Sterility Test	No microbial contamination was detected in any product.
Mycoplasma Test	No mycoplasma presence was detected in this final viral preparation upon compreh ensive testing.
Other QC	Our service scope includes both customized supplementary testing and comprehensi ve *in vitro*/*in vivo* transduction assessments.

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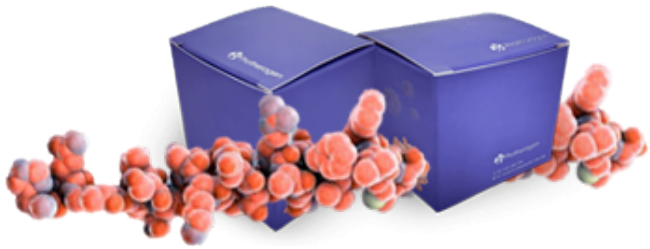

Storage	The necessity of immediate transfer to -80 °C storage following receipt is cruci al for upholding the product's integrity.
Stability	Biological activity remains intact for 6-12 months when stored at -80°C. Once re moved from the freezer, the diluted working material is stable for up to 2-3 wee ks at 4°C.
Shipping Condition	Our MSCV retroviral products are shipped using dry ice.
Handling Notes	Store the vector according to specified conditions and aliquot it immediately up on receipt into low-protein-binding tubes, which is necessary to maintain titer because viral particles are highly sensitive to both temperature fluctuations an d freeze-thaw cycles.
Intended Use	This product is intended for research use only and is not for use in diagnosis o r therapeutic applications.
Product Disclaimer	Throughout all operational processes, users bear ultimate responsibility for pro duct storage, handling, and compliance with all safety protocols, laws, regulati ons, and biosafety requirements. Although our company commits to product quality *via* rigorous internal QC inspections, the complexity of experimental con ditions means we cannot guarantee product performance or experimental results in any specific application.

Target Profile

Gene Name	RAB23
Full Name	RAB23, member RAS oncogene family
Gene Symbol	HSPC137
Gene ID	51715
RefSeq ID-1	NP_001265595.1
RefSeq ID-2	NM_001278666.2
Summary	RAB23 is a small GTPase involved in intracellular membrane trafficking and cellu lar signaling. It is particularly important in development as an antagonist to t he Sonic Hedgehog signaling pathway. Mutations in this gene can lead to Carpente r syndrome, which involves physical abnormalities and an increased risk of obesi ty, highlighting its role in coordinating developmental growth and metabolic hea lth.

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