

U2OS-CRISPR-SNAPf-Nup358/RanBP2 | 300663

General information

Description	U2OS-CRISPR-SNAPf-Nup358/RanBP2 is a cell line derived from U2OS cells, which are a human osteosarcoma cell line. The cells are stably transfected with a CRISPR-Cas9 system targeting the NUP358 gene, and a SNAPf-Nup358 fusion protein is expressed. The cells are used for studying the function of Nup358 in the nuclear pore complex (NPC). SNAPf is a fluorescent protein that binds to the NUP358 protein, allowing for visualization of the NPC. Nup358 is a nucleoporin that is essential for the assembly and function of the NPC. CRM1/exportin is a nuclear export receptor that binds to Nup358 and mediates its export from the nucleus. Ran GTPase is a small GTP-binding protein that is essential for the function of the NPC.
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Organism	Human
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Tissue	Human
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Disease	None
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Characteristics

Age	15 days
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Gender	Male
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Ethnicity	Human
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Morphology	Epithelial
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Growth properties	Adherent
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Identification and safety

Citation	U2OS-CRISPR-SNAPf-Nup358/RanBP2 (Cytion 300663)
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Biosafety level	1
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NCBI_TaxID	9606
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Depositor	EMBL
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GMO Status	GMO-S1: U2OS-CRISPR-SNAPf-Nup358/RanBP2 SNAPf-Nup358/RanBP2
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