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## MacroCargo™ Mouse J774 with IL-21 (Viral System, Lentivirus)

Cat. No.: MTS-1122-YF188

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

### Cell Properties

Product Overview	As a therapeutic tool, macrophage cell has a great capacity for delivering cargos because of their intrinsic characteristics. This product is engineered Mouse J774 carried with IL-21 by Viral System-Lentivirus. MacroCargo™ products aim to improve the macrophage function and delivery of specific cargos. We also provide custom macrophage delivery systems based on your specific requirements.
Cell Name	J774
Cell Type	Cell Line
Cell Species	Mouse
Cell Background	Mouse mononuclear macrophages J774A.1 is a cell line isolated in 1968 from the ascites of an adult, female mouse with reticulum cell sarcoma. This cell line can be used in immunology research.

### Cargo Properties

Cargo Type	Cytokine
Specific Cargo	IL-21
Cargo Common Name	IL21
Cargo Alternative Names	Za11; IL-21; CVID11
Cargo Full Name	Interleukin 21
Introduction	This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
UniprotID	<a href="#">Q9HBE4</a>

GeneID [59067](#)

Cargo Delivery System Type Viral System  
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Cargo Delivery Approach Lentivirus

## Product Properties

Applications Positive regulator of M1 polarization of macrophage; Improve survive; Promote persistence and activation of endogenous or adoptively transferred NK or T cells

Mycoplasma Testing Negative

Sterility Testing Negative

Shipping Dry ice

Storage Frozen cells should be stored in a liquid nitrogen tank (-150°C~-190°C) for long term.

Handling Notes Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance. Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line. Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Restriction Research use only