

- ✦ Efficient transfection in macrophage-derived cells and primary macrophages
- ✦ Easy-to-use protocol
- ✦ Compatible with serum and antibiotics

jetPEI™-Macrophage transfects macrophages and macrophage-like cells that are considered difficult to transfect. It contains a mannose conjugated linear polyethylenimine that binds to cells expressing mannose-specific membrane receptors, such as macrophages.

jetPEI™-Macrophage is also the reagent of choice for the transfection of cell lines such as RAW 264.7.

✦ **Transfection of primary human macrophages**

As shown in Figure 1, **jetPEI™-Macrophage** allows successful transfection of macrophages derived from monocytes matured for 7 days in presence of GM-CSF.

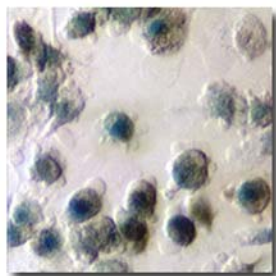


Fig. 1. Human macrophages expressing β -Galactosidase after transfection using jetPEI™-Macrophage.

✦ **Higher transfection efficiency compared to jetPEI™**

Primary human macrophages and murine RAW 264.7 cells express significantly higher protein levels when transfected with **jetPEI™-Macrophage** (Fig. 2).

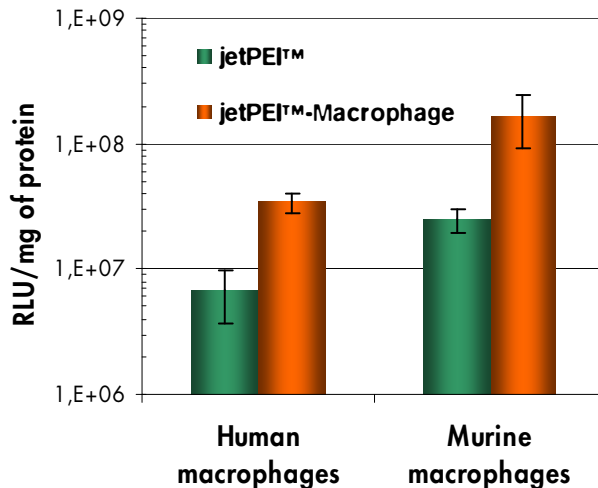


Fig. 2. Comparative efficiency of jetPEI™-Macrophage versus jetPEI™ on primary human macrophages and murine RAW 264.7 cells in 24-well plates. Primary human macrophages were transfected in the presence of 100 U/ml GM-CSF and 10% serum, using 1 μ g pCMVLuc and 2 μ l transfection reagent. Murine RAW 264.7 cells were transfected using 2 μ g pCMVLuc and 6.4 μ l transfection reagent. Luciferase activity was measured 24 h post-transfection.

✦ **Easy-to-use protocol**

The **jetPEI™-Macrophage** protocol is as simple as jetPEI™: Mix the DNA with the reagent to form complexes and simply add the mixture to the cells. **jetPEI™-Macrophage** is compatible with the use of serum and antibiotics. No media changes or washes are required. Protein expression is analyzed 24 to 72 hours post-transfection.

INTELLECTUAL PROPERTY:
The use of polyethylenimine (PEI) or polypropylenimine (PPI) or cationic polymers similar in structure thereto for transfecting cells, as well as compositions comprising these cationic polymers and at least one nucleic acid, are the subject matter of U.S. Patent No. 6,013,240, EP Patent No. 0,770,140 and foreign equivalents, for which Polyplus-transfection™ is the worldwide exclusive licensee.

Product	Cat N°	Reagent	Amount of NaCl solution
jetPEI™-Macrophage	103-01N	0.1 ml	5 ml
	103-05N	0.5 ml	50 ml

*NaCl complex-formation solution included (adapted to proper complex-formation, as indicated in the protocol).

0.5 ml of jetPEI™-Macrophage is sufficient to perform up to 250 transfections in 24-well plate.

jetPEI™-Macrophage was formerly named jetPEI™-Man.

For additional information, you may contact our technical support at www.polyplus-transfection.com