

List of MATra transfected cells

Mammalian cells that have been efficiently transfected using IBA technologies (MATra-A Reagent, MA Lipofection Enhancer and IBAfect)

Take a look at MATra Newsletter Issue 10, page 2-3 or www.magnet-assisted-transfection.com for further information about transfection reagents and MATra technology.

Works for the 5 most popular cell lines!

Adherent cells					
Cell line	Cell type / tissue origin	Organism	MATra-A	MA Lipofection Enhancer with IBAfect*	IBAfect
HeLa	cervix carcinoma	human	+	+	+
HEK 293	kidney	human	+	+	+
BHK-21	kidney	hamster	n.d.	+	+
CHO	ovary	hamster	+	+	+
NIH 3T3	fibroblast	mouse	+	+	+

16HB140	airway epithelium	human	+	n.d.	n.d.
FL	amion	human	+	n.d.	n.d.
U373	astrocytoma	human	[+]	[+]	[+]
EJ28	bladder cancer	human	+	n.d.	n.d.
HBL-100	breast	human	n.d.	+	+
MCF7	breast adenocarcinoma	human	+	+	+
MCF7-TAMR1	breast adenocarcinoma	human	+	n.d.	n.d.
MCF7-182R6	breast adenocarcinoma	human	+	n.d.	n.d.
MCS7	breast adenocarcinoma	human	+	n.d.	n.d.
MDA-MB231	breast adenocarcinoma	human	+	n.d.	n.d.
HeLa	cervix carcinoma	human	+	+	+
HCT 116	colon adenocarcinoma	human	n.d.	+	+
HCT 15	colon adenocarcinoma	human	n.d.	+	+
LoVo	colon adenocarcinoma	human	n.d.	+	+
SW480	colon adenocarcinoma	human	n.d.	+	+
A431	epidermoid carcinoma	human	n.d.	+	+
HT-1080	fibrosarcoma	human	+	n.d.	n.d.
HFF	foreskin fibroblast	human	[+]	[+]	n.d.
TZMBL	HeLa derivative	human	+	n.d.	n.d.
P4R5	HeLa derivative	human	+	n.d.	n.d.
Hep G2	hepatocellular carcinoma	human	+	+	+
HuH7	hepatocellular carcinoma	human	+	n.d.	n.d.
HaCat	keratinocyte	human	+	+	+
293 T	kidney	human	+	+	+
HPBG	kidney	human	+	n.d.	n.d.
293 T-17	kidney	human	n.d.	+	+
TSA201	kidney	human	+	n.d.	n.d.
HEK 293	kidney	human	+	+	+
NCI	lung epithelium	human	[+]	[+]	n.d.
SK-MES-1	lung carcinoma	human	+	n.d.	n.d.
MRC 5	fetal lung	human	+	+	n.d.
MeWo	melanoma	human	+	+	+
SK-MEL-28	melanoma	human	n.d.	+	+
SHSY-5Y	neuroblastoma	human	+	+	+
A549	lung carcinoma	human	+	+	+
SaOS-2	osteosarcoma	human	n.d.	+	+
BTK-143	osteosarcoma	human	n.d.	+	+
181RDB	pancreatic	human	n.d.	+	+
PC-3	prostate carcinoma	human	+	[+]	[+]
HSG	salivary gland, submandibular	human	n.d.	+	+
NCI H-82	small cell lung cancer	human	+	n.d.	n.d.
NT2-D1	testis carcinoma	human	[+]	[+]	[+]
ECV-304	urinary bladder carcinoma	human	n.d.	+	+

Adherent cells					
Cell line	Cell type / tissue origin	Organism	MATra-A	MA Lipofection Enhancer with IBAfect*	IBAfect
CT-26	colon carcinoma	mouse	+	n.d.	n.d.
F9	embryonal carcinoma	mouse	+	n.d.	n.d.
NIH 3T3	fibroblast	mouse	+	+	+
L929	fibroblast, connective tissue	mouse	+	n.d.	n.d.
HPL	hippocampal cell	mouse	+	n.d.	n.d.
HT-22	hippocampal neuroblast	mouse	n.d.	+	+
m1C-(d2)	intestine	mouse	n.d.	+	+
FTO	liver carcinoma	mouse	+	n.d.	n.d.
B16F10	melanoma	mouse	+	n.d.	n.d.
B16F10.9	melanoma	mouse	+	n.d.	n.d.
N2a	neuroblastoma	mouse	+	n.d.	n.d.
NS20Y	neuroblastoma	mouse	n.d.	+	+
P-388D1	monocyte-macrophage	mouse	[+]	[+]	[+]
RAW264	monocyte-macrophage, leukemia	mouse	+	n.d.	n.d.
C2C12	myoblast	mouse	+	[+]	[+]
AtT20	pituitary tumor	mouse	+	n.d.	n.d.
SM 10	trophoblast	mouse	n.d.	+	+

PC12	adrenal pheochromocytoma	rat	+	n.d.	n.d.
PC6-3	daughter cell line of PC12	rat	+	n.d.	n.d.
C6	glioma	rat	n.d.	+	+
5L	hepatocellular carcinoma	rat	[+]	[+]	[+]
H4IIE	hepatoma	rat	n.d.	+	+
B103	neuroblastoma	rat	+	n.d.	n.d.
L6	skeletal muscle cell	rat	[+]	[+]	n.d.
RV	vein	rat	+	n.d.	n.d.

COS-1	kidney	monkey	+	n.d.	n.d.
COS-7	kidney	monkey	+	+	n.d.
CV-1	kidney	monkey	+	n.d.	n.d.
Vero 76	kidney	monkey	+	n.d.	n.d.

BHK-21	kidney	hamster	n.d.	+	+
V79	lung fibroblast	hamster	+	n.d.	n.d.
CHO	ovary	hamster	+	+	+
CHO (AA8)	ovary	hamster	+	n.d.	n.d.
CHO-K1	ovary	hamster	+	n.d.	n.d.

PT-11	kidney	bovine	n.d.	+	+
MDBK-RI	kidney	bovine	+	n.d.	n.d.
MDBK-ZH	kidney	bovine	+	n.d.	n.d.
KOP/R	oesophagus	bovine	+	n.d.	n.d.

* in some examples given in this table a lipofection reagent other than IBAfect has been used
n.d. = not determined

[+] = either MATra, Enhancer or IBAfect has been used

See www.magnet-assisted-transfection.com for an up-to-date list of cells transfected successfully with MATra!

Adherent cells					
Cell line	Cell type / tissue origin	Organism	MATra-A	MA Lipofection Enhancer with IBAfect*	IBAfect
MDCK	kidney	canine	+	n.d.	n.d.
CRFK	kidney	cat	n.d.	+	+
CCB	brain	carp	+	n.d.	n.d.
LHM	hepatoma	chicken	+	n.d.	n.d.
VSa13	bone (chondrocyte-like)	fish	+	n.d.	n.d.
PTK2	kidney	potoroo	+	n.d.	n.d.
LLC-PK1	kidney	pig	+	n.d.	n.d.
SPEV	kidney	pig	+	n.d.	n.d.
PK15	kidney	pig	+	n.d.	n.d.
AM-C6SC8	kidney	pig	n.d.	+	+
RK 13	kidney	rabbit	+	n.d.	n.d.
QM9	muscle cell	quail	+	n.d.	n.d.
A6	kidney	xenopus	+	n.d.	n.d.
EMC	mesothelial cell (epicard)		n.d.	+	+

Suspension cells					
Cell line	Cell type / tissue origin	Organism	MATra-A	Enhancer	IBAfect
THP-1	acute myeloid leukemia	human	n.d.	+	+
Jurkat	acute T-cell lymphoma	human	n.d.	+	+
BL-41	B-cell lymphoma	human	and MATra-S +	n.d.	n.d.
K562	chronic myeloid lymphoma	human	and MATra-S +	n.d.	n.d.
U937	histiocytic lymphoma	human	and MATra-S +	n.d.	n.d.

P815	mastocytoma	mouse	n.d.	+	+
S2	embryonic	drosophila	[+]	[+]	[+]
SF9	larvae ovarian cell	deltoid moth	[+]	[+]	[+]

Primary cells					
	Cell type / tissue origin	Organism	MATra-A	Enhancer	IBAfect
-	aortic endothelial cell	human	+	n.d.	n.d.
-	dendritic cell	human	and MATra-S	n.d.	n.d.
-	endothelial (HUVEC)	human	+	n.d.	n.d.
-	fibroblast	human	+	+	+
-	fibroblast, diploid	human	+	+	+
-	gastric gland	human	+	n.d.	n.d.
-	glioma	human	+	n.d.	n.d.
-	hippocampal neuron	human	+	n.d.	n.d.
-	keratinocyte	human	n.d.	+	+
-	kidney	human	+	n.d.	n.d.
-	LNcaP	human	n.d.	+	+

Primary cells					
Cell line	Cell type / tissue origin	Organism	MATra-A	MA Lipofection Enhancer with IBAfect*	IBAfect
-	mammal epithelium	human	n.d.	+	+
-	mesenchymal stem cell (MSC)	human	+	n.d.	n.d.
-	nasal airway epithelium	human	+	n.d.	n.d.
-	pancreatic tumor	human	+	n.d.	n.d.
-	peripheral blood lymphocyte	human	+	+	+
-	stroma cell (endometrium)	human	n.d.	+	+
-	T-cell	human	+	n.d.	n.d.
-	trophoblastic cell	human	n.d.	+	+
-	uterus	human	[+]	[+]	n.d.
-	fibroblast (MEF)	mouse	+	+	+
-	hippocampal neuron	mouse	+	n.d.	n.d.
-	embryonic stem cell (MES)	mouse	+	n.d.	n.d.
-	myoblast	mouse	+	n.d.	n.d.
-	neuron	mouse	+	n.d.	n.d.
-	peripheral blood lymphocyte	mouse	n.d.	+	+
-	T-cell	mouse	+	n.d.	n.d.

-	hepatocyte	rat	+	+	+
-	hippocampal neuron	rat	+	[+]	[+]
-	SG (ganglion)	rat	[+]	[+]	n.d.
-	neuron (E18.5)	rat	+	n.d.	n.d.

-	aortic endothelial cell	bovine	+	n.d.	n.d.
-	carotid artery smooth muscle	bovine	+	n.d.	n.d.
-	chromaffine cell	bovine	n.d.	+	+
-	lens	bovine	+	n.d.	n.d.

-	airway epithelium	pig	n.d.	+	+
-	chondrocytes	pig	+	n.d.	n.d.
-	fibrochondrocyte	pig	+	n.d.	n.d.
-	pSM, smooth muscle	pig	n.d.	+	+

-	fibroblast	chicken	+	n.d.	n.d.
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