

Supplementary Information, Table S4.

Proteomic results from transfer of MC/9 exosomes to HMC-1 cells (identified spots from Fig. S3).

Human mast cells HMC-1 were incubated with and without the mouse MC/9 exosomes for 24 hours. Proteins between the two gels were matched and 96 newly produced proteins were identified by MALDI-tof. A number of spots were identified both as human and mouse proteins with same or different scores. Each identified protein was compared with exosomal mRNA and proteins identified by microarray (n=4) respectively LC-MS/MS (n=3). In the four microarray experiments, presence of mRNA in exosomes is labelled with P, absence with A, and mismatch with M. Presence of exosomal proteins identified in the three LC-MS/MS experiments is marked as 1, 2, and 3. ND means not detected.

Spot no	Human protein		Mouse protein		Presence in exosomes	
	Accession	Score	Accession	Score	mRNA	Protein
233	(Q9BQE3) Alpha-tubulin 6	124	(P68373) Alpha-tubulin 6	124	MAPA	1
282	(P13796) Plastin-2	141	(Q61233) Plastin-2	141	AAAA	1
251	P14317) Hematopoietic lineage cell-specific protein	78	(P49710) Hematopoietic lineage cell-specific protein	78	AAAA	ND
126	(P14625) Endoplasmic	150	(P08113) Endoplasmic	132	AAAA	1
325	(P61978) Heterogeneous nuclear ribonucleoprotein K	60	(P61979) Heterogeneous nuclear ribonucleoprotein K	60	PPAP	1
425	(P60709) Actin, cytoplasmic 1	143	(P60710) Actin, cytoplasmic 1	143	APPP	3
187	(P11142) Heat shock cognate 71 kDa protein	189	(P63017) Heat shock cognate 71 kDa protein	189	PAPA	3
607	(P63104) 14-3-3 protein zeta/delta	113	(P63101) 14-3-3 protein zeta/delta	113	PPPA	2
220	(P06576) ATP synthase subunit beta	184	(P56480) ATP synthase subunit beta	163	AAPP	ND
451	(P63261) Actin, cytoplasmic 2	142	(P63260) Actin, cytoplasmic 2	142	APAP	1
224	(P60709) Actin, cytoplasmic 1	158	(P60710) Actin, cytoplasmic 1	158	APAP	3
232	(P07437) Tubulin beta-2 chain	210	(P99024) Tubulin beta-5 chain	210	APPP	3
281	(P60709) Actin, cytoplasmic 1	53	(P60710) Actin, cytoplasmic 1	53	APAP	3
581	(P48995) Short transient receptor potential channel 1	59	(Q61056) Short transient receptor potential channel 1	59	AAAA	ND
349	Not detected		(P48771) Cytochrome c oxidase polypeptide VIIa-liver/heart, mitochondrial precursor	60	PPPP	ND
282	Not detected		(O89033) Cell division control protein 6 homolog	54	MAPP	ND
187	Not detected		(P15620) Zinc finger protein 271	60	APAP	ND