

**Supplementary Information, Table S3.****All genes present in exosomes but absent in the MC/9 cells.**

All transcripts (270) present in mast cells derived exosomes but absent in their donor cells MC/9. The transcripts were identified by Affymetrix mouse DNA microarray and analysed by the Affymetrix program GCOS followed by the spotfire software.

Entrez gene ID	Gene Symbol	Gene Title
NM_029550	Keg1	kidney expressed gene 1
BG069413	Klf4	Kruppel-like factor 4 (gut)
NM_027940	1700001F09Rik	RIKEN cDNA 1700001F09 gene
NM_021560	Bhlhb5	basic helix-loop-helix domain containing, class B5
NM_008305	---	---
NM_011774	Slc30a4	solute carrier family 30 (zinc transporter), member 4
NM_008176	Cxcl1	chemokine (C-X-C motif) ligand 1
C79214	D2Ertd239e	DNA segment, Chr 2, ERATO Doi 239, expressed
C77692	D2Ertd63e	DNA segment, Chr 2, ERATO Doi 63, expressed
BC003705	Sftpd	surfactant associated protein D
NM_030676	Nr5a2	nuclear receptor subfamily 5, group A, member 2
NM_031188	Mup1 /// Mup2	major urinary protein 1 /// major urinary protein 2
NM_029667	2310069N01Rik	RIKEN cDNA 2310069N01 gene
NM_019985	Clec1b	C-type lectin domain family 1, member b
NM_028605	2410116I05Rik	RIKEN cDNA 2410116I05 gene
NM_009647	Ak3l1	adenylate kinase 3 alpha-like 1
NM_008500	Lhx6	LIM homeobox protein 6
NM_008836	Phxr5	per-hexamer repeat gene 5
NM_008239	Foxq1	forkhead box Q1
NM_008587	Mertk	c-mer proto-oncogene tyrosine kinase
NM_009126	Serpinb3b	serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3B
BC020531	Spon1	spondin 1, (f-spondin) extracellular matrix protein
AF306667	Tbx20	T-box 20
AF307746	Tnk1	tyrosine kinase, non-receptor, 1
BC016247	6430548M08Rik	RIKEN cDNA 6430548M08 gene
AF290196	Zfp352	zinc finger protein 352
U57821	Mdf1	MyoD family inhibitor
U15647	LOC277923	reverse transcriptase
M55512	Wt1	Wilms tumor homolog
AF292033	Twsg1	twisted gastrulation homolog 1 (Drosophila)
BM116592	Neurod1	neurogenic differentiation 1
BQ176723	Nrp2	neuropilin 2
BG068672	---	Transcribed locus
BB316578	LOC434002	hypothetical gene supported by AK018238; AK046289
AA413531		eukaryotic translation initiation factor 1A /// similar to Eukaryotic translation initiation factor 1A (eIF-1A) (eIF-4C)
AI509029	Six3	sine oculis-related homeobox 3 homolog (Drosophila)
AI615965	Zfp125	zinc finger protein 125
M18237	---	Immunoglobulin rearranged kappa-chain (OK1) mRNA V region
AF373288	Adam34	a disintegrin and metalloprotease domain 34
AK011748		RIKEN cDNA 1700001E04 gene /// RIKEN cDNA 4930555G01

		gene
AK014104	Wasl	Wiskott-Aldrich syndrome-like (human)
BB364520	Tcf4	transcription factor 4
BG072739	Sox11	SRY-box containing gene 11
AV060902	Ela3b	elastase 3B, pancreatic
AV216768	Phgdh /// LOC546010	3-phosphoglycerate dehydrogenase /// similar to 3-phosphoglycerate dehydrogenase
C77655	---	PREDICTED: Mus musculus similar to protease (LOC434722), mRNA
C77609	C77609	expressed sequence C77609
BG063240		similar to protease /// similar to protease
BG066461	C79246	expressed sequence C79246
BG066044	C77815	expressed sequence C77815
BG078932	C76336	expressed sequence C76336
NM_009690	Cd5l	CD5 antigen-like
NM_009220		spermiogenesis specific transcript on the Y 1 /// similar to Y-linked testis-specific protein /// similar to Y-linked testis-specific protein /// similar to Y-linked testis-specific protein /// similar to Y-linked testis-specific protein
BC010820	Atoh1	atonal homolog 1 (Drosophila)
NM_028570	1700091H14Rik	RIKEN cDNA 1700091H14 gene
NM_007496	Atbf1	AT motif binding factor 1
AW259474	Ighmbp2	immunoglobulin mu binding protein 2
NM_009493	V2r4 /// V2r5	vomer nasal 2, receptor, 4 /// vomer nasal 2, receptor, 5
BC024416	---	MRNA similar to RIKEN cDNA 9030624G23 gene (cDNA clone MGC:36379 IMAGE:4988668), complete cds
BB628935	Ank3 /// 2900054D09Rik	ankyrin 3, epithelial /// RIKEN cDNA 2900054D09 gene
AV306884	Plce1	phospholipase C, epsilon 1
M73818	---	---
AF047725	Cyp2c38	cytochrome P450, family 2, subfamily c, polypeptide 38
BC021831	---	Mus musculus, clone IMAGE:3983821, mRNA, partial cds
BM195235		similar to hypothetical protein LOC67055 /// similar to hypothetical protein LOC67055
BG066238	C78549	expressed sequence C78549
BG066533	---	---
C78891	C78891	expressed sequence C78891
BG066263	C78651	expressed sequence C78651
BG065684	C76472	expressed sequence C76472
NM_010654	Klrd1	killer cell lectin-like receptor, subfamily D, member 1
AF277898	Egfr	epidermal growth factor receptor
BG069991	---	---
BG083989	---	---
AK006257	1700023A16Rik	RIKEN cDNA 1700023A16 gene
BB462518	Syt11	synaptotagmin XI
AK006975	Speer4b	spermatogenesis associated glutamate (E)-rich protein 4b
AK006975	Speer4b	spermatogenesis associated glutamate (E)-rich protein 4b
AK008821	Cldn22	claudin 22
AK016695	4933406J08Rik	RIKEN cDNA 4933406J08 gene
AK017111	4933438K21Rik	RIKEN cDNA 4933438K21 gene

AK019407	Fbxo44	: F-box protein 44
AV278455	4933402C05Rik	RIKEN cDNA 4933402C05 gene
BB019121	Cml3	camello-like 3
BG807740	1500019C06Rik	RIKEN cDNA 1500019C06 gene
AK012902	5730446D14Rik	RIKEN cDNA 5730446D14 gene
BI319712	Adamts9	a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 9
AK016652	4933404K08Rik	RIKEN cDNA 4933404K08 gene
BF227338	---	---
AK016081	4930549O18Rik	RIKEN cDNA 4930549O18 gene
AK012982	2810404F17Rik	RIKEN cDNA 2810404F17 gene
AK005492	Psg21	pregnancy-specific glycoprotein 21
AK014779	4833427F10Rik	RIKEN cDNA 4833427F10 gene
AK020418	9430014N10Rik	RIKEN cDNA 9430014N10 gene
AK016812	4933414I06Rik	RIKEN cDNA 4933414I06 gene
AK006176	1700020M10Rik	RIKEN cDNA 1700020M10 gene
AK018881	1700066C05Rik	RIKEN cDNA 1700066C05 gene
BE381593	4933411E06Rik	RIKEN cDNA 4933411E06 gene
AK011583	Itgav	integrin alpha V
AK017425	5530400K19Rik	RIKEN cDNA 5530400K19 gene
AK015390	4930445G23Rik	RIKEN cDNA 4930445G23 gene
AK018498	9030409K20Rik	RIKEN cDNA 9030409K20 gene
AK019801	4933406F09Rik	RIKEN cDNA 4933406F09 gene
AK019930	5330433J24Rik	RIKEN cDNA 5330433J24 gene
AK016790	4933412F11Rik /// 4930529H12Rik	RIKEN cDNA 4933412F11 gene /// RIKEN cDNA 4930529H12 gene
AK011377	2610011I18Rik	RIKEN cDNA 2610011I18 gene
AK018087	6230414M07Rik	RIKEN cDNA 6230414M07 gene
AK018087	6230414M07Rik	RIKEN cDNA 6230414M07 gene
AK014197	3110049I03Rik	RIKEN cDNA 3110049I03 gene
AK020543	9530004M16Rik	RIKEN cDNA 9530004M16 gene
AK015935	4930529H12Rik	RIKEN cDNA 4930529H12 gene
AK015935	4930529H12Rik	RIKEN cDNA 4930529H12 gene
AK007074	---	---
AK007074	1700095A21Rik	RIKEN cDNA 1700095A21 gene
AK005121	1500002K03Rik	RIKEN cDNA 1500002K03 gene
BF322785	Mup1	major urinary protein 1
BI714160	Zfp287	zinc finger protein 287
BB306272	Rora	RAR-related orphan receptor alpha
BB306272	Rora	RAR-related orphan receptor alpha
BB033554	Lef1	Lymphoid enhancer binding factor 1
BB053506	Rbms3	RNA binding motif, single stranded interacting protein
BM213788	---	Transcribed locus
BB120697	Spr2a	Small proline-rich protein 2B
BB135602	LOC433377	similar to Interferon-activatable protein 203 (Ifi-203) (Interferon-inducible protein p203)
BM198106	Rex2	reduced expression 2
AW123234	LOC433810	similar to transmembrane protein SHREW1

AW555368	---	T-complex responder, Smok(Tcr) gene, t6 allele strain t-haplotype t6
BB482899	Bnc2	basonuclin 2
BQ174746	2900078E11Rik	RIKEN cDNA 2900078E11 gene
BB393078	---	Transcribed locus, strongly similar to XP_510099.1 PREDICTED: similar to neurexin 3-alpha [Pan troglodytes]
BB117670	---	---
BB800596	A830006F12Rik	RIKEN cDNA A830006F12 gene
BB124976	9630002D21Rik	RIKEN cDNA 9630002D21 gene
BB061859	BC052883	cDNA sequence BC052883
BB356786	Prdm16	PR domain containing 16
BB097040	---	CDNA clone IMAGE:30543871, partial cds
BB750043	9530006C21Rik	RIKEN cDNA 9530006C21 gene
AV208461	LOC541463	testis-specific protein
BB349344	Usp25	Ubiquitin specific protease 25
AI048080	4930482J15Rik	RIKEN cDNA 4930482J15 gene
AI326469	---	---
AI593945	2610027H17Rik	RIKEN cDNA 2610027H17 gene
AV347067	AI853688	Expressed sequence AI853688
BG070986	Oaz2	Ornithine decarboxylase antizyme 2
BB051562	---	12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720430M22 product:unknown EST, full insert sequence
AI849127	Dpf3	D4, zinc and double PHD fingers, family 3
BB155332	LOC433844	similar to Anapc5 protein
BB112393	9630050E16Rik	RIKEN cDNA 9630050E16 gene
BB472466	6720403M19Rik	RIKEN cDNA 6720403M19 gene
BB260131	6430701C03Rik	RIKEN cDNA 6430701C03 gene
BG802688	Ptpk	Protein tyrosine phosphatase, receptor type, K
AI839625	D14Ertd171e	DNA segment, Chr 14, ERATO Doi 171, expressed
BB376943	AW822216	Expressed sequence AW822216
BG083020	---	---
BG071029		similar to ALY /// similar to ALY /// similar to ALY
BII01322	Lrrc19	leucine rich repeat containing 19
BM117570	---	---
BG066195	D2Ertd173e	DNA segment, Chr 2, ERATO Doi 173, expressed
AW556834	---	---
BB169269	BC030499	cDNA sequence BC030499
AV268386	---	Adult male testis cDNA, RIKEN full-length enriched library, clone:4930534N17 product:unclassifiable, full insert sequence
BB228490	AW539457	expressed sequence AW539457
BB028677	3-Sep	septin 3
BG073304	Pcp4l1	Purkinje cell protein 4-like 1
BG076234	A330015D16Rik	RIKEN cDNA A330015D16 gene
BG067367	C86090	expressed sequence C86090
BG068807	---	Transcribed locus
BG065821	D12Ertd125e	DNA segment, Chr 12, ERATO Doi 125, expressed
BG069080	---	---
BG066175	---	---
BG066727	---	---

BE993069	AI875142	Expressed sequence AI875142
BG067686	5830435C13Rik	RIKEN cDNA 5830435C13 gene
BG066900	C80893	expressed sequence C80893
BB041366	Akr1b3	Aldo-keto reductase family 1, member B3 (aldose reductase)
BG066928	C81001	expressed sequence C81001
BB250407	Tmed5	transmembrane emp24 protein transport domain containing 5
BM942607	Ppp4c	Protein phosphatase 4, catalytic subunit
BE987947	---	Clone NIA:K0956B04 unknown mRNA
BB503979	4930573O21Rik	RIKEN cDNA 4930573O21 gene
BG068986	---	---
BB012661	---	Adult male testis cDNA, RIKEN full-length enriched library, clone:4930452E19 product:unclassifiable, full insert sequence
BG076325	---	Transcribed locus
BG065840	LOC385211 /// LOC433783	similar to RIKEN cDNA 1700029I01 /// similar to RIKEN cDNA 1700029I01
BG071600	---	Transcribed locus
BB124954	Lztf1	Leucine zipper transcription factor-like 1
BG075609	Piwil2	Piwi like homolog 2 (Drosophila)
BB241135	---	PREDICTED: Mus musculus similar to Cdv3 protein (LOC433790), mRNA
BB357080	Rgs20	regulator of G-protein signaling 20
AW556352	ErbB4	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
BB082509	9330175H22Rik	RIKEN cDNA 9330175H22 gene
BG068989	---	---
BB496295	---	---
BB497767	Pax8	paired box gene 8
BB249985	A730037C10Rik	RIKEN cDNA A730037C10 gene
BG066346	---	---
BB156930	A130033P14	hypothetical protein A130033P14
BB660139	Zswim6	Zinc finger, SWIM domain containing 6
AU022245	AU022245	expressed sequence AU022245
C77164	1700008I05Rik	RIKEN cDNA 1700008I05 gene
BG068123	---	---
BG068681	---	---
AU042851	---	---
C79752	---	---
AU022045	---	---
BE980854	H2afy3	H2A histone family, member Y3
BF321332	---	---
BE948370	---	Transcribed locus
AI506532	---	---
AW121856	---	---
AI843353	---	Transcribed locus
AI448156	---	---
BI499978	---	Transcribed locus
AV160090	Snap25	Synaptosomal-associated protein 25
AV208528	---	Transcribed locus
BB255841	---	---
BB273287	---	---

AK018466	8430436O14Rik	RIKEN cDNA 8430436O14 gene
BM217754	2900054D09Rik	RIKEN cDNA 2900054D09 gene
AK007420	4933439C20Rik	RIKEN cDNA 4933439C20 gene
BB626695	Atbf1	AT motif binding factor 1
BE945468	9530057J20Rik	RIKEN cDNA 9530057J20 gene
AV278800	4933403O03Rik	RIKEN cDNA 4933403O03 gene
AK019946	5430417C01Rik	RIKEN cDNA 5430417C01 gene
AK017499	5730405O12Rik	RIKEN cDNA 5730405O12 gene
AK014604	4632432E15Rik	RIKEN cDNA 4632432E15 gene
AK016790	---	---
AK017129	4933439N06Rik	RIKEN cDNA 4933439N06 gene
BE225694	Cri2	CREBBP/EP300 inhibitory protein 2
BI076807	a	Nonagouti
BQ176181	---	Transcribed locus
BM228829	C87414 /// LOC545772 /// LOC545780	expressed sequence C87414 /// similar to C87414 protein /// similar to C87414 protein
BB198406	BB165335	expressed sequence BB165335
BB417442	Clec1a	C-type lectin domain family 1, member a
AV208162	4933406F09Rik	RIKEN cDNA 4933406F09 gene
BB308463	B230303O12Rik	RIKEN cDNA B230303O12 gene
BM198753	Gm397 /// XM_486399 /// LOC545913	gene model 397, (NCBI) /// Mus musculus sequence XM_486399 /// similar to Gm397 protein
BB485668	Nfx1l	nuclear transcription factor, X-box binding-like 1
BM899576	Odz2	Odd Oz/ten-m homolog 2 (Drosophila)
L26640	LOC433975 /// LOC545729 /// LOC545730	hypothetical gene supported by AK077204 /// hypothetical protein LOC545729 /// hypothetical protein LOC545730
AI506888	---	---
BB705267	Og9x	OG9 homeobox gene
BM121947	Cd80	CD80 antigen
AW553423	---	---
BB713391	---	Mus musculus, Similar to RIKEN cDNA B430319H21 gene, clone IMAGE:3991101, mRNA
AI647966	5830446M03Rik	RIKEN cDNA B130021K23 gene
AI462674	Cadps	Ca <sup>2+</sup> -dependent activator protein for secretion
C79035	---	---
AI413530	Clec2e	C-type lectin domain family 2, member e
BE945748	---	---
BB023775	App	Amyloid beta (A4) precursor protein
AI585995	---	---
AI118114	---	Transcribed locus
AW494074	---	Transcribed locus
BG069087	Gpr149	G protein-coupled receptor 149
BG064130	Ltbp1	Latent transforming growth factor beta binding protein 1
BG066304	D12Ertd208e	DNA segment, Chr 12, ERATO Doi 208, expressed
BG070655	---	---
C77586	D11Ertd49e	DNA segment, Chr 11, ERATO Doi 49, expressed
BG075241	Zfp521	Zinc finger protein 521

AW537756	A230048G03Rik	RIKEN cDNA A230048G03 gene
BG074624	---	---
AU040911	---	---
BE992875	---	---
BB466780	Trim2	tripartite motif protein 2
BF472132	1810057P16Rik	RIKEN cDNA 1810057P16 gene
BB473929	---	---
AK017182	5033421C21Rik	RIKEN cDNA 5033421C21 gene
AK021064	Cdh10	cadherin 10
BI076807	a	Nonagouti