Table 1. Classification of protein biomarkers from urinary exosomes based on radiation exposure and time post-exposure. Spectra count from unique peptides were used as quantitative measurements of protein expression. Red indicates at least 1.5 fold higher expression in th irradiated mice compared to the non-irradiated mice. Green indicates at least 2 fold lower in the irradiated mice compared to the non-irradiated mice Black indicates no change in protein expression. Expression level of each protein in normal tissue was denoted based on The Human Protein Atlas ++ indicates high expression and + indicates medium expression in the specified tissue. X marks the detection of the protein in the Vesicleopedi database.

				Normal tissue expression (High-medium)							Exosomes						
Accession#	**Symbol**	**24hr**	**72hr**	**Liver**	**Pancreas**	**Kidney/Bladder**	**Prostate/Testis**	**GI Tract**	**Kidney Failure**	**Glomerular Injury**	**Plasma**	**Urine**	**Cancer**	**Immune cell**	**MSC**	**Adipocyte**	**Additional**
Group 1 (11)																	
Q8BZH1	TGM4						++					x	x				
O08709	PRDX6			++	++	++	++	++				x	x	x	x		Thymocytes
P06869	PLAU				+			+					x		x		
Q8BFR4	GNS					+	+	+					x				Retinal epithelial c
P03953	CFD					++	+					x	x				
Q6QR59	Fam115E																
O08976	PBSN						+										
P06151	LDHA			+		+	+	+						x			Thymocytes
P70269	CTSE				+	+		++						x			
P45700	MAN1A1			++	+	++	+	++				x	x				
P08226	APOE			++		+	++							x			
Group 2 (1)																	
P11591	MUP5													x			
Group 3 (2)																	
Q61838	A2M			+							x		x	x	x	x	Synovial fluid
P13366	GZMG																
Group 4 (3)																	
P07724	ALB			+	+	++	+		x				x	x		x	Thymocytes
P23780	GLB1			++	+	+		+				x	x				
P11859	AGT			+		+	+	+	x	x	x		x				
Group 5 (2)																	
P20060	HEXB					+	+	+	x				x				Retinal epithelial c
Q571E4	GALNS			++	++	++	++	++					x				
Group 6 (4)																	
Q91X17	UMOD					++				x		x	x				
Q60932	VDAC1			+	++	++	++	++				x		x			Thymocytes
Q07797	LGALS3BP					++	++	+			x	x	x		x	x	Saliva
Q9JHE3	ASAH2																