

Supplemental Table S1. List of 85 common proteins identified in plasma exosomes of high and low fertility heifers

Accession number	Name	Gene name	Biological Process	Molecular Function
Q3T101	IGL2 protein	IGL2		
Q1RMN8	Immunoglobulin light chain, lambda gene cluster	IGL2		
Q5E9E3	Complement C1q subcomponent subunit A	C1QA		
A6QPP2	SERPIND1 protein	SERPIND1	Biological regulation	Catalytic activity
A5D7Q2	Putative uncharacterized protein			
A6QM09	Putative uncharacterized protein			
Q29437	Primary amine oxidase, liver isozyme			
F1MH40	Uncharacterized protein (Protein Gm20730)		Response to stimulus	
F1MAV0	Fibrinogen beta chain	FGB		
D4QBB4	Globin A1	HBB		
Q1RMH5	C1QC protein (Fragment)	C1QC		
G5E604	Uncharacterized protein (SUBFAMILY NOT NAMED)		Response to stimulus	
A4IFI0	IGLL1 protein	IGLL1		
Q9TTE1	Serpine A3-1	SERPINA3-1	Biological regulation	Catalytic activity
P81644	Apolipoprotein A-II	APOA2	Biological regulation / Cellular component organization or biogenesis / Metabolic process / Multicellular organismal process	Binding / Catalytic activity / Transporter activity

Q68RU0	Ovarian and testicular apolipoprotein N	ApoN		
A5PJE3	Fibrinogen alpha chain	FGA		
A0A140T897	Serum albumin	ALB		
Q5GN72	Alpha-1-acid glycoprotein	agp	Response to stimulus	
Q2KIU3	Protein HP-25 homolog 2			
I7CT57	Vitamin D binding protein			
Q7SIH1	Alpha-2-macroglobulin	A2M	Cellular process / Metabolic process / Response to stimulus	Binding / Catalytic activity
E1BH06	Uncharacterized protein (Complement C4-B)	LOC617696	Cellular process / Metabolic process / Response to stimulus	Binding / Catalytic activity
G3MZH0	Uncharacterized protein		Response to stimulus	
F1N076	Uncharacterized protein (Ceruloplasmin)	CP	Developmental process / Response to stimulus	
F1N514	Uncharacterized protein (CD5 antigen-like)	CD5L	Cellular process / Localization / Metabolic process	Catalytic activity / Receptor activity
G5E513	Uncharacterized protein (Ig mu chain C region)		Biological regulation / Cellular component organization or biogenesis / Cellular process / Localization / Metabolic process / Multicellular organismal process / Response to stimulus	
Q3SYR8	Immunoglobulin J chain	IGJ	Response to stimulus	Binding
Q58D62	Fetuin-B	FETUB	Biological regulation	Catalytic activity
P23805	Conglutinin	CGN1	Biological regulation	
A5D9D2	Complement component 4 binding protein, alpha chain	C4BPA		
Q3MHN2	Complement component C9	C9	Biological adhesion / Cellular process / Immune system process	
A7E3W2	Galectin-3-binding protein	LGALS3BP		

F1MLW8	Uncharacterized protein (SUBFAMILY NOT NAMED)		Response to stimulus
P02662	Alpha-S1-casein	CSN1S1	Localization
V6F9A2	Apolipoprotein A-I preproprotein	APOA1	
G3X6N3	Serotransferrin	TF	
B0JYP6	IGK protein	IGK	
A0A1K0FUD3	Globin C1	GLNC1	
G3MXG6	Uncharacterized protein (Ig heavy chain V region MC101)		Biological regulation / Cellular component organization or biogenesis / Cellular process / Localization / Metabolic process / Multicellular organismal process / Response to stimulus Binding
G3N0V0	Uncharacterized protein (Ig gamma-1 chain C region- related)		Biological regulation / Cellular component organization or biogenesis / Cellular process / Localization / Metabolic process / Multicellular organismal process / Response to stimulus Binding
Q2KJF1	Alpha-1B-glycoprotein	A1BG	Cellular process / Response to stimulus Receptor activity
Q2KIT0	Protein HP-20 homolog		
B0JYN6	Alpha-2-HS-glycoprotein	AHSG	
F1MMP5	Inter-alpha-trypsin inhibitor heavy chain H1	ITIH1	
G3N1R1	Uncharacterized protein (Ig heavy chain V-II region COR-related)		

F1MJK3	Uncharacterized protein (Pregnancy zone protein)		Cellular process / Metabolic process / Response to stimulus	Binding / Catalytic activity
Q2KIF2	Leucine-rich alpha-2- glycoprotein 1	LRG1		
P00735	Prothrombin	F2	Metabolic process / Response to stimulus	Catalytic activity
Q3ZBS7	Vitronectin	VTN	Cellular process	
Q3SZZ9	FGG protein	FGG		
O02659	Mannose-binding protein C	MBL	Biological regulation / Metabolic process / Response to stimulus	Binding
P81187	Complement factor B	CFB	Biological adhesion / Cellular process / Response to stimulus	
F1N3Q7	Apolipoprotein A-IV	APOA4		
G3N0S9	Uncharacterized protein (C4b-binding protein alpha chain)	LOC515150	Biological adhesion / Cellular process / Response to stimulus	
A5D9E9	Complement component 1, r subcomponent	C1R		
G5E5T5	Uncharacterized protein (Ig mu chain C region)			Binding
Q2UVX4	Complement C3	C3	Cellular process / Metabolic process / Response to stimulus	Binding / Catalytic activity
K4JF16	Alpha-2-macroglobulin variant 23	A2M		
P28800	Alpha-2-antiplasmin	SERPINF2	Biological regulation	Catalytic activity
Q2KIX7	Protein HP-25 homolog 1			
P02666	Beta-casein	CSN2	Biological regulation / Localization	Binding / Catalytic activity
Q6T182	Sex hormone-binding globulin (Fragment)	SHBG		

F1MNV4	Inter-alpha-trypsin inhibitor heavy chain H2	ITIH2		
F1MLW7	Uncharacterized protein	LOC100297192		
Q28085	Complement factor H	CFH	Biological adhesion / Cellular process / Immune system process	
V6F9A3	Apolipoprotein C-III	ApoC3		
F1MVK1	Uncharacterized protein (Complement C4-B)		Cellular process / Metabolic process / Response to stimulus	Binding / Catalytic activity
G3MZE0	Uncharacterized protein (SUBFAMILY NOT NAMED)			
P34955	Alpha-1-antitrypsin	SERPINA1	Biological regulation	Catalytic activity
Q3SZV7	Hemopexin	HPX	Localization	
Q3Y5Z3	Adiponectin	ADIPOQ		
A0A140T8A9	Kappa-casein (Fragment)	csn3		
G3MXL3	Keratin, type II cytoskeletal 3	KRT3	Cellular component organization or biogenesis / Cellular process	Structural molecule activity
F1MMK9	Protein AMBP	AMBP		
A0A140T8C8	Beta-2-glycoprotein 1	APOH		
A0A140T843	Kininogen-1	KNG1		
P06868	Plasminogen	PLG		
B8Y9S9	Embryo-specific fibronectin 1 transcript variant	FN1		
Q3T052	Inter-alpha (Globulin) inhibitor H4 (Plasma Kallikrein-sensitive glycoprotein)	ITIH4	Metabolic process	Binding / Catalytic activity
Q3SZQ8	Endopin 2	SERPINA3-7		
F1N1I6	Gelsolin	GSN		
F1MY85	Complement C5a	C5		

G3X6K8	anaphylatoxin			
P41361	Haptoglobin	HP		
	Antithrombin-III	SERPINC1	Biological regulation	Catalytic activity
