

Table S1. Proteins identified in the membrane and supernatant fractions of purified yolk platelets

Identified proteins	GI number	YP membranes or supernatant?	Description
Yolk platelets			
Vitellogenin A2	gij4388696	Both	Major yolk protein, estrogen inducible (liver)
Vitellogenin B1	gij33563034	Both	Major yolk protein, estrogen inducible (liver)
Plasma			
Ep45	gij259142	Both	Protein found in <i>X. laevis</i> plasma and eggs, estrogen inducible (liver)
MGC64276	gij32766455	YP membranes	Homolog of human complement component C9
Pon1-prov	gij28422437	YP membranes	Homolog of paraoxonase, hydrolyzes oxidized lipids in LDL
MGC82702	gij49256138	YP supernatant	Homolog of alpha globin, subunit of hemoglobin
LOC448844	gij51895923	YP supernatant	Serum albumin
Lysosome			
LOC432087	gij71051360	YP membranes	Predicted alpha-L-1 fucosidase
Manba-prov	gij50417768	YP supernatant	Predicted beta-mannosidase
MGC64382, dipeptidyl-peptidase IV	gij111185523, gij147907306	YP supernatant	Dipeptidyl-peptidase IV, serine protease, hydrolyzes N-terminus dipeptides
LOC446948	gij71681246	YP supernatant	Predicted galactocerebrosidase
Ctsc-prov	gij33417162	YP supernatant	Dipeptidyl aminopeptidase I, cysteine protease, hydrolyzes N-terminus dipeptides
Endoplasmic reticulum			
LOC495169	gij54038199	YP membranes	Homolog of human ERp72, a protein disulfide isomerase
Grp58-prov	gij28302197	Both	Homolog of human ERp57, a protein disulfide isomerase, associates with ApoB100
P4hb	gij28436918	Both	Homolog of human PDI, a protein disulfide isomerase
MGC79068	gij50418205	YP membranes	Homolog of human P5, a protein disulfide isomerase
MGC52808, MGC52894	gij28277278, gij28175644	YP membranes	Predicted Ribophorin I
MGC53764	gij28436786	YP membranes	Predicted Ribophorin II
MGC84282, LOC495100	gij49522162, gij54038026	YP membranes	Homolog of human ERLIN2, prohibitin family member
MGC68448, heat shock protein gp96	gij37805387, gij148223467	YP supernatant	Predicted Hsp90 chaperone
Hspa5	gij27370850	Both	Nearly identical to <i>X. laevis</i> BiP, Hsp70 chaperone
Mitochondria			
MGC82638	gij49256557	YP membranes	Predicted hydroxyacyl-Coenzyme A dehydrogenase
Atp5b	gij28436792	YP membranes	Predicted ATP synthase, mitochondrial F1 complex, beta subunit precursor
Atp5a1	gij32766606	YP membranes	Predicted ATP synthase, mitochondrial F1 complex, alpha subunit
MGC82361, MGC82400, MGC82361	gij47682284, gij46329495, gij47682284	YP membranes	Predicted ATP synthase, mitochondrial F0 complex, subunit d
Thiolase-prov	gij28280033	YP membranes	Predicted hydroxyacyl-Coenzyme A dehydrogenase
Mitochondrial malate dehydrogenase	gij50882324	YP membranes	Mitochondrial malate dehydrogenase 2a
MGC114756	gij62826006	YP membranes	Predicted voltage-dependent anion-selective channel protein
MGC79025	gij50417418	YP membranes	Predicted Prohibitin 2
Hspd1, MGC53106	gij47938737, gij28436902	Both	Predicted Hsp60 chaperone
Location not classified			
MGC68676	gij37747702	YP supernatant	Predicted phospholipase D3, involved in signalling pathways
MGC82953	gij148228657	YP supernatant	Predicted VAT1, a vesicle amine transport protein
MGC81039	gij46249838	YP membranes	Homolog of yeast Yop1, binds to Rab proteins
Rheb-prov	gij27695152	YP membranes	Predicted Rheb, GTPase, growth regulator upstream of TOR
MGC64421	gij32450604	YP membranes	Homolog of human thrombin inhibitor, an intracellular serpin
Cytoplasm			
MGC53952	gij28374367	Both	Nearly identical to <i>X. laevis</i> Hsc70, constitutively expressed Hsp70 protein
LOC443576	gij48734658	YP membranes	Predicted inosine monophosphate synthase, de novo purine biosynthesis
Pgm2-prov	gij27881782	YP membranes	Predicted phosphoglucomutase, glycogen metabolism
MGC69114	gij33585659	YP membranes	Predicted transketolase, pentose phosphate pathway
Cct3-prov	gij29477224	YP membranes	Predicted subunit of CCT chaperonin

Cct8-prov	gij27924345	YP membranes	Predicted subunit of CCT chaperonin
PKM2	gij51258124	YP membranes	Predicted pyruvate kinase, glycolysis
MGC53997	gij27695233	YP membranes	Predicted beta-tubulin
Eno1-prov	gij32450571	YP membranes	Predicted enolase, glycolysis
MGC64329	gij32484263	YP membranes	Predicted elongation factor 1 gamma
Actin	gij1334642	YP membranes	Predicted beta-actin
MGC53030	gij28302293	YP membranes	Predicted fructose bisphosphate aldolase
Ckb-prov	gij27503418	YP membranes	Predicted creatine kinase
Gapd-prov	gij27882192	YP membranes	Predicted glyceraldehyde 3-phosphate dehydrogenase, glycolysis
NM23	gij1655706	YP membranes	Nucleoside diphosphate kinase
Cofilin-1, Cofilin-2	gij148232082, gij1168995	YP membranes	Actin regulation
MGC82306	gij46329492	YP membranes	Predicted 40S ribosomal protein S18
Rpl27-prov	gij34193964	YP membranes	Predicted 60S ribosomal protein L27
Ferritin heavy chain	gij33331485	YP membranes	Forms iron storage complexes
14-3-3 zeta, Ywhaz-prov	gij1360640, gij27370992	YP membranes	14-3-3 protein
Ppib-prov, LOC495270	gij32484306, gij54261578	YP membranes	Predicted peptidylprolyl isomerase B

The GI number of each identification by the Mascot software and the associated protein name are listed. If the protein has not been assigned a function in *X. laevis*, as in the great majority of cases, BLAST searches were used to assign homologs and predicted functions. When highly similar (>95% amino acid identity) proteins were identified by mass spectrometry, they were assumed to be pseudo-alleles and are listed in the same row, separated by a comma.
