

Table S2

	Gene Name	ENSEMBL_ID	PubMed ID	Presence	Number of ESTs	Species	Selected
1	Nephrin	ENSMUSG00000006649	10393930	YES	11	Human	YES
2	Podocin	ENSMUSG00000026602	10742096	YES	41	Human	YES
3	Podocalyxin	ENSMUSG00000025608	9188463	YES	31	Human	YES
4	protein tyrosine phosphatase, receptor type, O	ENSMUSG00000030223	7665166	YES	8	Humna, mouse	YES
5	Synaptopodin	ENSMUSG00000043079	1856454	YES	14	rat, human	YES
6	Alpha-actinin 4	ENSMUSG00000054808	10700177	YES	13	human	YES
7	DENSIN-180 (mouse orthologue)	ENSMUSG00000028176	12819232	NO	0	human	NO
8	podocan	ENSMUSG00000028600	12796502	NO	0	mouse	NO
9	Vimentin	ENSMUSG00000026728	6201675	YES	11	human	YES
10	Ezrin	ENSMUSG00000052397	9853258	YES	3	rat	NO
11	Myosin heavy chain, smooth muscle isoform	ENSMUSG00000022443	11752022	YES	3	human	NO
12	Actin, aortic smooth muscle	ENSMUSG00000035783	1735573	YES	3	rat	NO
13	Desmin	ENSMUSG00000026208	2432791	YES	1	human	NO
14	Protease nexin I	ENSMUSG00000026249	8943477	YES	6	mouse	YES
15	mesoderm specific transcript	ENSMUSG00000051855	11934706	YES	6	mouse	YES
16	caldesmon 1	ENSMUSG00000029761	9623549	YES	7	human	YES
17	Cyclin-dependent kinase inhibitor p27	ENSMUSG00000003031	10916090	YES	2	human	NO
18	Cyclin-dependent kinase inhibitor p57	ENSMUSG00000037664	10916090	YES	21	human	YES
19	Tumor suppressor p53	ENSMUSG00000059552	1821855	YES	4	mouse	NO
20	ZO-1	ENSMUSG00000030516	2202736	YES	10	rat	YES
21	P-cadherin	ENSMUSG00000061048	8074995	NO	0	human, pig	NO
22	Junction plakoglobin	ENSMUSG00000001552	8074995	YES	1	human, pig	NO
23	VE-cadherin	ENSMUSG00000031871	9864160	YES	4	mouse	NO
24	VE-cadherin-2	ENSMUSG00000024440	15541725	YES	6	mouse	YES
25	Beta-catenin	ENSMUSG00000006932	12592568	YES	10	rat	NO
26	p120 catenin	ENSMUSG00000034101	12592568	YES	2	rat	NO
27	CD2-associated protein	ENSMUSG00000023916	10997929	YES	4	mouse	NO
28	Mouse fat 1 cadherin	ENSMUSG00000031646	8586420	YES	1	human	NO
29	Neph1	ENSMUSG00000041734	12424224	YES	1	mouse	NO
30	Neph3/Filtrin	ENSMUSG00000036915	12504092	NO	0	human	NO
31	LIM homeobox transcription factor 1 beta	ENSMUSG00000038765	11175791	NO	0	mouse	NO
32	Forkhead box protein C2	ENSMUSG00000046714	8325367	YES	4	mouse	YES
33	Mafb	ENSMUSG00000035311	10860830	YES	1	rat	NO
34	Pod-1	ENSMUSG00000045680	12619136	YES	3	mouse	YES
35	Wilms' tumor protein homolog	ENSMUSG00000016458	8382938	YES	7	mouse, human	YES
36	GATA-3	ENSMUSG00000015619	7956841	YES	5	mouse	NO
37	Homeobox protein Hox-B3	ENSMUSG00000048763	1977573	YES	2	mouse	NO
38	Kruppel-like factor 6	ENSMUSG00000000078	11274234	YES	2	mouse	NO
39	Collagen alpha 1(IV) chain	ENSMUSG000000031502	7962065	YES	18	human, mouse, rat	NO
40	Collagen alpha 2(IV) chain	ENSMUSG000000031503	7962065	YES	4	human, mouse, rat	NO
41	procollagen, type IV, alpha 3	ENSMUSG00000026152	7962065	YES	9	human, mouse, rat	YES
42	procollagen, type IV, alpha 5	ENSMUSG00000031274	7962065	YES	2	human, mouse, rat	NO
43	procollagen, type XVIII, alpha 1	ENSMUSG00000001435	12588956	YES	2	mouse	NO

44	Laminin beta-1 chain	ENSMUSG00000002900	7670489	YES	2	mouse	NO
45	Laminin beta-2 chain	ENSMUSG000000052911	7670489	YES	3	mouse	YES
46	Laminin gamma-1 chain	ENSMUSG000000026478	12015298	YES	6	mouse	NO
47	Laminin alpha-5	ENSMUSG000000015647	9415429	YES	7	mouse	NO
48	laminin receptor	ENSMUSG000000032518	11553521	YES	15	rat	NO
49	Perlecan	ENSMUSG000000028763	9249024	NO	0	human	NO
50	Nidogen	ENSMUSG000000005397	1745013	YES	5	human	YES
51	Nidogen-2	ENSMUSG000000021806	12215539	YES	4	mouse	YES
52	Tns protein	ENSMUSG000000055322	15100245	YES	3	rat	NO
53	tenascin XB	ENSMUSG000000033327	8783183	NO	0	fetal bovine	NO
54	SPARC	ENSMUSG000000018593	1279269	YES	64	rat	YES
55	TIMP-3	ENSMUSG000000020044	7949367	YES	9	mouse	YES
56	MMP-2	ENSMUSG000000031740	15034162	YES	2	human	NO
57	Integrin alpha-1 (mouse orthologue)	ENSMUSG000000042284	2144000	YES	2	human	NO
58	Integrin alpha-2	ENSMUSG000000015533	2144000	NO	0	human	NO
59	Integrin alpha-3	ENSMUSG000000001507	2144000	YES	1	human	NO
60	Integrin alpha-5	ENSMUSG000000000555	2144000	NO	0	human	NO
61	Integrin alpha-6	ENSMUSG000000027111	2144000	YES	2	human	NO
62	Integrin alpha-V	ENSMUSG000000027087	11728964	YES	1	rat	NO
63	Integrin beta-1	ENSMUSG000000025809	10504498	YES	6	human	NO
64	Integrin beta-5	ENSMUSG000000022817	8821033	YES	3	mouse	YES
65	integrin alpha 8	ENSMUSG000000026768	10504498	YES	7	human, mouse, rat	YES
66	Dystroglycan	ENSMUSG000000039952	10793086	YES	7	rat	NO
67	utrophin	ENSMUSG000000019820	10793086	YES	3	rat	NO
68	agrin	ENSMUSG000000041936	10793086	NO	0	rat, human	NO
69	Lutheran blood group	ENSMUSG000000002980	11507772	YES	4	mouse	NO
70	Talin 1	ENSMUSG000000028465	9422981	YES	2	human	NO
71	Vinculin	ENSMUSG000000021823	9422981	YES	7	human	NO
72	paxillin alpha	ENSMUSG000000029528	9422981	NO	0	human	NO
73	p130cas	ENSMUSG000000031955	9422981	YES	5	human	NO
74	VEGF-A	ENSMUSG000000023951	1592003	YES	11	mouse	NO
75	HIF-1 alpha	ENSMUSG000000021109	12660327	NO	0	mouse	NO
76	HIF-2 alpha	ENSMUSG000000024140	12660327	YES	5	mosue	NO
77	HIF-1 beta	ENSMUSG000000015522	12660327	YES	1	mosue	NO
78	Neuropilin-1	ENSMUSG000000025810	10919846	YES	15	mouse	YES
79	Neuropilin-2	ENSMUSG000000025969	12617854	YES	2	mouse	NO
80	Semaphorin 3A	ENSMUSG000000028883	12617854	NO	0	mouse	NO
81	Semaphorin 3F	ENSMUSG000000034684	12617854	YES	3	mouse	NO
82	VEGFR-1	ENSMUSG000000029648	7864162	YES	4	human	YES
83	VEGFR-2	ENSMUSG000000062960	10919846	YES	10	mouse	YES
84	VEGFR-3	ENSMUSG000000020357	12019293	YES	2	human, monkey	NO
85	Connective tissue growth factor	ENSMUSG000000019997	15012739	YES	10	human	NO
86	TGF-beta 1	ENSMUSG000000002603	8441250	NO	0	human	NO
87	SMAD 1	ENSMUSG000000031681	11850197	YES	1	mouse	NO
88	SMAD 2	ENSMUSG000000024563	11850197	YES	2	mouse	NO
89	SMAD 3	ENSMUSG000000032402	11850197	YES	2	mouse	NO
90	SMAD 4	ENSMUSG000000024515	11850197	YES	3	mouse	NO

91	SMAD 6	ENSMUSG00000036867	11170839	YES	2	rat	NO
92	SMAD 7	ENSMUSG00000025880	11170839	YES	2	rat	NO
93	BMP-7	ENSMUSG00000008999	11084657	YES	2	mouse	NO
94	CRIM1	ENSMUSG00000024074	11084657	YES	3	mouse	YES
95	Angiopoietin-1	ENSMUSG00000022309	11261688	NO	0	mouse	NO
96	Angiopoietin-2	ENSMUSG00000031465	10820169	YES	1	mouse	NO
97	Tie-1	ENSMUSG00000033191	9642132	YES	3	mouse	NO
98	Tie-2	ENSMUSG00000006386	11261688	YES	3	mouse	NO
99	Ephrin-B2	ENSMUSG00000001300	11729236	YES	2	mouse	NO
100	Ephrin-A1	ENSMUSG00000027954	7675446	YES	2	rat, mouse	NO
101	Midkine	ENSMUSG00000027239	11856770	YES	1	rat	NO
102	HDGF	ENSMUSG00000004897	9739055	YES	2	rat	NO
103	PTH/PTHr receptor	ENSMUSG00000032492	8769838	YES	9	rat	NO
104	PDGF B-chain	ENSMUSG00000000489	9693135	YES	3	mouse	NO
105	PDGF-R-beta	ENSMUSG00000024620	9693135	YES	1	mouse	NO
106	platelet-derived growth factor, D	ENSMUSG00000032006	12427128	NO	0	human	NO
107	HbGF-2	ENSMUSG00000037225	10469357	NO	0	human	NO
108	FGFR-1	ENSMUSG00000031565	10469357	YES	1	human	NO
109	Jagged 1	ENSMUSG00000027276	11171333	NO	0	mouse	NO
110	Notch 1	ENSMUSG00000026923	15499562	YES	5	mouse	YES
111	Notch 2	ENSMUSG00000027878	11171333	NO	0	mouse	NO
112	Notch 3	ENSMUSG00000038146	15499562	YES	1	mouse	NO
113	Notch 4	ENSMUSG00000015468	15499562	YES	2	mouse	NO
114	Cut-like 1	ENSMUSG00000029705	15499562	YES	2	mouse	NO
115	Delta1	ENSMUSG00000014773	11171333	NO	0	mouse	NO
116	DAF- GPI	ENSMUSG00000026399	12427125	YES	1	rat	NO
117	IGFBP-5	ENSMUSG00000026185	9324049	YES	32	mouse	YES
118	IGFBP-3	ENSMUSG00000020427	11228264	YES	1	monkey	NO
119	IGF-II	ENSMUSG00000048583	11228264	YES	2	monkey	NO
120	adrenomedullin	ENSMUSG00000030790	9564831	YES	1	rat	NO
121	EC-NOS	ENSMUSG00000028978	9867209	YES	1	rat	YES
122	PECAM-1	ENSMUSG00000020717	10792602	YES	5	human	YES
123	ICAM-2	ENSMUSG00000001029	9565596	YES	3	mouse	YES
124	Endoglin	ENSMUSG00000026814	9052849	YES	4	Human	YES
125	Fractalkine	ENSMUSG00000031778	11912255	YES	5	human	YES
126	CXCR-3	ENSMUSG00000050232	11912255	YES	1	human	NO
127	COX-1	ENSMUSG00000047250	12657565	YES	2	rat, mouse	NO
128	CXCL12	ENSMUSG00000061353	11912255	YES	3	human	YES
129	secreted frizzled-related sequence protein 2	ENSMUSG00000027996	9739103	YES	7	mouse	YES
130	polycystin-1	ENSMUSG00000032855	8765322	YES	2	human?	NO
131	CRBP	ENSMUSG00000046402	1966045	YES	1	mouse	NO
132	microtubule-associated protein 7	ENSMUSG00000019996	9745708	YES	1	mouse	NO
133	megsin	ENSMUSG00000026327	10589701	NO	0	human	NO
134	Aminopeptidase A	ENSMUSG00000028024	7174362	YES	17	mouse, rat	NO
135	coxsackievirus and adenovirus receptor	ENSMUSG00000032024	12808125	YES	2	rat	NO
136	Hsd3b4	ENSMUSG00000056351	14988265	NO	0	human,mouse	NO
137	Megalyn	ENSMUSG00000027070	11004703	YES	1	rat	NO

138	fibronectin 1	ENSMUSG00000026193	7693621	YES	1	human	NO
139	Vitronectin	ENSMUSG00000017344	8931984	NO	0	human	NO
140	Myocilin	ENSMUSG00000026697	15610237	NO	0	rat	NO
141	Integrin-linked protein kinase	ENSMUSG00000030890	15528771	NO	0	rat	NO
142	Connexin 43	ENSMUSG00000050953	12414508	NO	0	rat	NO
143	Connexin 40	ENSMUSG00000057123	15094354	YES	2	rat	YES
144	Claudin-5	ENSMUSG00000041378	12110008	YES	5	rabbit	YES
145	Ras-related protein Rab-3A	ENSMUSG00000031840	12937130	NO	0	rat	NO
146	Rabphilin-3A	ENSMUSG00000029608	12937130	NO	0	rat	NO
147	Cathepsin L	ENSMUSG00000021477	15197181	YES	16	rat	NO
148	Magi-1	ENSMUSG00000045095	11274227	NO	0	rat	NO
149	Magi-2	ENSMUSG00000040003	15994232	YES	17	rat	YES
150	JCAM	ENSMUSG00000000159	12773569	NO	0	rat	NO
151	WT1-interacting protein	ENSMUSG00000036459	14736876	YES	2	mouse	NO
152	NHERF-2	ENSMUSG00000002504	11121391	YES	4	rat	YES
153	pp125FAK	ENSMUSG00000022607	10457217	YES	2	mouse	NO
154	Radixin	ENSMUSG00000032050	8647942	YES	7	rat	NO
155	Moesin	ENSMUSG00000031207	8647942	YES	5	rat	NO
156	Vear	ENSMUSG00000030872	11473645	NO	0	human	NO
157	HSP 27	ENSMUSG00000004951	8675679	YES	3	rat	YES
158	drebrin	ENSMUSG00000020476	12761245	YES	3	mouse, rat, human	NO
159	cortactin	ENSMUSG00000031078	14623927	YES	1	rat	NO
160	CUL-5	ENSMUSG00000032030	9950950	YES	2	rabbit	NO
161	Galectin-9	ENSMUSG00000001123	9153289	YES	3	mouse	YES
162	Receptor for advanced glycosylation end products	ENSMUSG00000015452	12651605	YES	1	mouse	YES
163	Janus kinase 3	ENSMUSG00000031805	9099938	YES	1	human	YES
164	Renin 1	ENSMUSG00000026449	2686465	YES	14	rat	YES
165	AT1 receptor	ENSMUSG00000029007	8315936	YES	1	rat	NO
166	GRP 78	ENSMUSG00000026864	10862152	YES	5	rat	NO
167	SH3 domain-binding protein 5	ENSMUSG00000021892	10862152	YES	1	rat	NO
168	Syndecan-4	ENSMUSG00000017009	10862152	YES	4	rat	NO
169	CD34	ENSMUSG00000016494	12000719	YES	5	human	YES
170	endomucin	ENSMUSG00000054690	12000719	YES	18	human	YES

Table S2

Result of literature search for glomerulus gene and protein expression demonstrated with cellular resolution by in situ hybridization or immunohistochemistry.

The Table provides the following information (in columns from left to right):

- 1) gene name or acronym.
- 2) ENSEMBL ID number.
- 3) PubMed ID for reference.
- 4) Presence in Glombase (Y/N).
- 5) Number of ESTs in GlomBase.
- 6) Species from which information was derived.
- 7) Selected in GlomChip analysis (Y/N).