

**Table 1** Known pairs  $(p, q)$ ,  $p < 1000$ , such that  $LR(p, q)$  is prime (P) or probable prime (PRP). ECPP ( $\diamond$ ) method has been used for the primality of large values.

$p$	$q$	Digits	Primality	$p$	$q$	Digits	Primality
11	317	1810	P	421	89	1271	P
17	433	2924	P	421	317	4561	P $\diamond$
29	31	242	P	439	29	407	P
29	83	660	P	449	547	7965	P $\diamond$
29	229	1834	P	461	3019	44215	PRP
41	2297	20367	PRP	463	2753	40347	PRP
41	28289	250924	PRP	487	479	7066	P $\diamond$
47	5	37	P	491	167	2457	P
47	47	424	P	503	73	1070	P
47	4177	38404	PRP	557	109	1631	P
59	1381	13441	P $\diamond$	571	1091	16526	P $\diamond$
59	8971	87365	PRP	587	1093	16629	PRP
79	1571	16386	P $\diamond$	607	13	184	P
79	6317	65920	PRP	613	47	706	P
89	73	772	P	613	1013	15515	PRP
97	331	3606	P	619	1297	19900	PRP
97	887	9682	P $\diamond$	643	953	14703	P $\diamond$
103	14939	165374	PRP	673	1019	15834	P $\diamond$
109	373	4169	P $\diamond$	677	3	32	P
113	197	2214	P	691	1523	23770	P $\diamond$
157	2207	26643	P $\diamond$	739	2503	39475	PRP
173	103	1256	P	761	13	190	P
197	5	50	P	773	67	1049	P
199	4519	57125	PRP	787	73	1147	P
223	101	1292	P	809	149	2367	P
223	281	3617	P	809	6029	96410	PRP
223	9431	121795	PRP	811	43	671	P
227	11	130	P	821	1163	18626	PRP
239	107	1387	P	829	11	161	P
251	3	26	P	839	4177	67153	PRP
251	1193	15733	PRP	857	683	11002	P $\diamond$
257	1699	22506	PRP	857	3847	62042	PRP
281	19	243	P	877	3617	58531	PRP
311	15787	216429	PRP	881	241	3888	P $\diamond$
311	16453	225560	PRP	881	251	4050	P $\diamond$
317	10331	142098	PRP	937	59	949	P
331	2129	29492	PRP	941	349	5692	P $\diamond$
349	409	5706	P $\diamond$	947	41	654	P
353	239	3335	P	953	557	9111	P $\diamond$
373	15187	214796	PRP	971	3	33	P
379	11	142	P	971	433	7098	P $\diamond$
401	59	831	P	977	59	954	P
409	4423	63520	PRP	983	3	33	P