

Phylogenetic tree of the C1orf122 gene region. The tree is rooted at the top and branches downwards. Bootstrap values are shown at the nodes. The sequences are labeled on the right side of the tree. The labels include: 292918292488, CIR08, 292033, CIR072*, CIR03*, 291694*, 293142*, EICR049*, 294284*, 2950002*, 295703, CIR1726*, 295682*, 298410, EICR518*, EICR599*, CIR072, EICR546*, 2936654*, 2950146*, 2933535, EICR606*, EICR67*, 301919285104, 30166, CIR162*, 302647301793, CIR51*, CIR186*, and 300831.

0.0	300487
1.2	294264
3.6	291415
4.8	302676
5.8	CIR188
9.8	291335
10.9	301679
12.5	CIR5532
13.5	298606
15.5	CIR1742
16.0	934133
18.0	2980804
19.9	2924093
20.2	Ma11
22.0	3014532
23.1	301711
25.0	CIR582
27.8	3030772
28.4	CIR1741
29.0	CIR618
30.9	CIR182
34.3	2911161
36.0	CIR282
45.9	CIR283
46.0	CIR108
61.0	CIR55
61.9	292320
62.3	303145
63.0	300186
64.4	CIR584
65.9	292555
65.9	292810
66.0	284900
66.4	CIR29
68.9	CIR1
69.0	CIR617
70.5	CIR185

0.0 299809
3.5 CIR207*
5.6 302046*
7.1 2944207*
8.0 CIR3032*
12.7 ECIR6237*
12.7 294224
16.3 ECIR610*
17.5 2846662*
17.6 2952912*
19.2 ECIR504*
22.2 3022252*2828972*
29.1 291757
29.1 ECIR629*
29.1 291757
35.9 CIR302*
36.7 2926762*
36.7 2918931*
36.8 2918272*
40.2 ECIR635*
44.0 CIR102*
44.1 2985451*302454
44.1 301356298729
44.1 2997981
44.1 300303341
44.1 29616282859*
44.7 2995522*3006792*
45.4 300914
45.4 28301800221
46.0 301356298729
46.0 ECIR622*
47.1 CIR130*
47.1 29583351*

0.0 293785302740
292849299747
6.0 JARRET1_32
7.2 291481295606
7.9 Ma132
13.0 299129
14.0
31.0 290857
31.8 291314295995
34.2 CIR156
44.8 293128
48.7 291199
53.6 CIR109
58.8 291371
70.2 295681
70.7 302553
71.9 CIR154
74.6 293894
76.6 300588
76.7 302807298188
76.9 299331*
77.0 3033292* 3001672*

0.0	299395
1.1	291394
12.6	ECIR544
17.7	295909
30.2	298946
32.5	298892
34.3	CIR17
36.0	284904
37.7	295671
37.8	295674
41.2	294576
42.8	202085
42.9	202090
43.7	295856
44.3	298721
44.3	298721
44.3	298721
44.3	298721
50.2	ECIR5629817
50.8	295639
53.0	ECIR507
54.5	293339
55.0	ECIR515
64.2	CIR247
67.1	282588
68.1	ECIR602
72.1	296063
72.3	289854

0.0 298630
0.9 ECIR5136*
1.7 CIR276*
1.9 2950281* 2917371*
3.0 2910552*
3.5 CIR1586*
9.6 CIR1927*
9.7 293193 290801
9.9 2996714*
10.5 295552
15.2 291379
20.3 295320
25.0 CIR1702*
26.7 CIR2952*
27.9 3027332*
34.3 2924992*
47.3 292338 302438
47.4 302295 CIR184
54.3 CIR103
62.4 2929611*
66.1 3008382*
70.7 ECIR564
71.6 2937822*
72.1 2935182*
75.4 2920044*
75.5 2920044*

0.0 ECIR536
6.6 302115
12.9 293987
14.8 303202
15.5 291652
18.2 CIR120
23.7 300961
28.5 291762
32.4 302000
34.2 291808
34.3 299563
44.9 CIR112
46.1 CIR122
47.0 291803
54.4 300329
59.9 ECIR573
72.0 ECIR556
77.9 294988
78.4 CIR112
78.7 299273
78.9 300671
79.0 284953
79.1 302644
80.0 303290847
80.2 281608
80.7 CIR601
80.9 282802

0.0	CIR447*
8.6	294530
11.2	ECIR626*
26.8	291849
28.2	300238299259
33.0	298297
33.5	291015
45.5	292234CIR40
46.1	292336
47.3	CIR287
48.5	292754
48.6	301035
49.9	294245
50.7	CIR168*
51.2	2922114
54.9	303087
56.5	ECIR8570
56.8	292340302119
	292436
75.6	299904
86.3	300045
94.9	292137
97.2	295135
98.4	ECIR518
98.9	301020

Figure 1: Schematic diagram of the ECRIS10 ion source. The diagram shows a vertical cross-section of the ion source with various components labeled with their names and vertical positions in cm. From top to bottom, the components are: ECRIS10 (0.0 cm), 299599 (8.5 cm), 290991 (9.4 cm), 3022352909931 (17.7 cm), ECRIS02 (18.2 cm), CIR114 (21.4 cm), CIR260 (25.2 cm), 291674292922 (27.9 cm), 293099 (37.9 cm), 295699 (41.1 cm), 300507 (55.6 cm), 290923 (56.0 cm), ECRIS23 (56.6 cm), 296011 (59.5 cm), CIR219 (67.4 cm), 300944 (67.7 cm), 284658 (70.8 cm), 291821 (71.7 cm), 291639 (72.3 cm), 299419 (72.4 cm), ECRIS25 (73.2 cm), 290416 (74.1 cm), ECRIS11 (74.2 cm), 300550 (80.0 cm), and 282644 (86.0 cm).

3.0	CIR257*
4.2	ECIR50*
7.4	2592332*
7.5	292136*
8.1	292136
14.0	3006432*
14.5	2545837*
14.6	2535717*
15.0	2535717*
16.5	2548987*
16.5	2548987*
17.5	ECIR568*
20.6	3017087*
20.7	2546333*
23.0	3026067*
31.3	2911247*
31.3	ECIR562*
38.5	2905517*
38.5	293465*
50.0	ECIR508*
49.3	2991893*
59.3	CIR2728*
64.5	298571*
64.6	299332
65.5	295719
67.1	ECIR456*
68.4	2830484*
69.7	2915184*
71.0	2915184*
71.0	2923854*
71.0	302395*
76.5	CIR124*
85.9	292460
87.9	CIR182
87.9	ECIR292
91.9	2909393*

0.0	CIR115L*
0.5	285199
4.1	292772
5.7	ECIR509
5.7	ECIR54II*
9.0	300015
9.2	CIR162
10.1	295511
10.7	CIR272
11.6	ECIR0500
12.0	293665
14.3	293479
14.3	302216299708
15.0	301402
31.3	ECIR535
38.1	CIR1138
40.0	CIR1309
41.8	298592
41.9	302764296089
42.8	302756
43.5	302447
44.9	CIR157
44.9	30292929272
45.8	ECIR566
45.8	303101
47.2	294362295644
60.1	CIR297
60.1	291835*