

Alkaloids and Quinolones as potential MtbTopI inhibitors: An *in-silico* discovery using ADME studies and molecular dynamics simulation

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Supplementary Tables

Supplementary Table 1: Top 105 Quinolones and their binding energy obtained after virtual screening using PyRx software.

Ligand PubChem CID	Target	Binding Energy (kcal/mol)
154574355	6cqi(cleaned)	-11.1
24203533	6cqi(cleaned)	-10.4
24203532	6cqi(cleaned)	-9.9
67016608	6cqi(cleaned)	-9.8
14661521	6cqi(cleaned)	-9.7
15506108	6cqi(cleaned)	-9.7
121302501	6cqi(cleaned)	-9.6
54689660	6cqi(cleaned)	-9.6
122441972	6cqi(cleaned)	-9.6
3245646	6cqi(cleaned)	-9.6
23646775	6cqi(cleaned)	-9.6
54722219	6cqi(cleaned)	-9.4
122441951	6cqi(cleaned)	-9.4
100945192	6cqi(cleaned)	-9.4
100945198	6cqi(cleaned)	-9.4
14661522	6cqi(cleaned)	-9.3
137797579	6cqi(cleaned)	-9.3
100945203	6cqi(cleaned)	-9.3
163839	6cqi(cleaned)	-9.3
118911046	6cqi(cleaned)	-9.3
4375181	6cqi(cleaned)	-9.2
20141773	6cqi(cleaned)	-9.2
131953858	6cqi(cleaned)	-9.2
131953873	6cqi(cleaned)	-9.2
132278185	6cqi(cleaned)	-9.2
14969509	6cqi(cleaned)	-9.2
129729368	6cqi(cleaned)	-9.1
9889060	6cqi(cleaned)	-9.1
12899497	6cqi(cleaned)	-9.1
131726344	6cqi(cleaned)	-9.1
129794977	6cqi(cleaned)	-9.1
132276292	6cqi(cleaned)	-9.1
135687073	6cqi(cleaned)	-9.1
483150	6cqi(cleaned)	-9.1

10096946	6cqi(cleaned)	-9.1
18321596	6cqi(cleaned)	-9.1
70418029	6cqi(cleaned)	-9
20141779]	6cqi(cleaned)	-9
145997749	6cqi(cleaned)	-9
100945202	6cqi(cleaned)	-9
10097037	6cqi(cleaned)	-8.9
129862045	6cqi(cleaned)	-8.9
129706706	6cqi(cleaned)	-8.9
131953874	6cqi(cleaned)	-8.9
129878303	6cqi(cleaned)	-8.9
25249349	6cqi(cleaned)	-8.9
85881877	6cqi(cleaned)	-8.9
100945201	6cqi(cleaned)	-8.9
20141784	6cqi(cleaned)	-8.8
20150456	6cqi(cleaned)	-8.8
121302509	6cqi(cleaned)	-8.8
131953861	6cqi(cleaned)	-8.8
21101785	6cqi(cleaned)	-8.8
122442020	6cqi(cleaned)	-8.8
10002122	6cqi(cleaned)	-8.8
73011290	6cqi(cleaned)	-8.8
131953866	6cqi(cleaned)	-8.8
465926	6cqi(cleaned)	-8.8
135623862	6cqi(cleaned)	-8.8
25249351	6cqi(cleaned)	-8.8
483152	6cqi(cleaned)	-8.8
2137248	6cqi(cleaned)	-8.8
20141776	6cqi(cleaned)	-8.8
54677712	6cqi(cleaned)	-8.8
54685600	6cqi(cleaned)	-8.8
20141789	6cqi(cleaned)	-8.7
145944253	6cqi(cleaned)	-8.7
10412910	6cqi(cleaned)	-8.7
54682999	6cqi(cleaned)	-8.7
131953863	6cqi(cleaned)	-8.7
633328	6cqi(cleaned)	-8.7
34177913	6cqi(cleaned)	-8.7
135815586	6cqi(cleaned)	-8.7
129843471	6cqi(cleaned)	-8.7
54702678	6cqi(cleaned)	-8.7
483151	6cqi(cleaned)	-8.7

131953880	6cqi(cleaned)	-8.6
10432087	6cqi(cleaned)	-8.6
131953879	6cqi(cleaned)	-8.6
6447481	6cqi(cleaned)	-8.6
10433988	6cqi(cleaned)	-8.6
18918418	6cqi(cleaned)	-8.6
19867092	6cqi(cleaned)	-8.6
136698772	6cqi(cleaned)	-8.6
10094246	6cqi(cleaned)	-8.6
154236550	6cqi(cleaned)	-8.6
19021633	6cqi(cleaned)	-8.6
23646771	6cqi(cleaned)	-8.6
56208	6cqi(cleaned)	-8.6
10043403	6cqi(cleaned)	-8.6
10338561	6cqi(cleaned)	-8.6
54680747	6cqi(cleaned)	-8.6
54682505	6cqi(cleaned)	-8.6
53387189	6cqi(cleaned)	-8.5
101681493	6cqi(cleaned)	-8.5
129843714	6cqi(cleaned)	-8.5
131953860	6cqi(cleaned)	-8.5
5350830	6cqi(cleaned)	-8.5
16727326	6cqi(cleaned)	-8.5
23646773	6cqi(cleaned)	-8.5
54680587	6cqi(cleaned)	-8.5
135687077	6cqi(cleaned)	-8.5
5663	6cqi(cleaned)	-8.5
62959	6cqi(cleaned)	-8.5
69306516	6cqi(cleaned)	-8.5

Supplementary Table 2: Top 101 Alkaloids and their binding energy obtained after virtual screening using PyRx software.

Ligand PubChem CID	Target	Binding Energy (kcal/mol)
433181	6cqi(cleaned)	-11.2
90478901	6cqi(cleaned)	-11.2
6000	6cqi(cleaned)	-11.1
179594	6cqi(cleaned)	-10.2
23635382	6cqi(cleaned)	-10.2

253793	6cqi(cleaned)	-10.1
146033259	6cqi(cleaned)	-10
99954	6cqi(cleaned)	-10
101427402	6cqi(cleaned)	-9.7
146033257	6cqi(cleaned)	-9.7
177184	6cqi(cleaned)	-9.5
102115604	6cqi(cleaned)	-9.4
146033258	6cqi(cleaned)	-9.4
102115606	6cqi(cleaned)	-9.3
198004	6cqi(cleaned)	-9.3
5154	6cqi(cleaned)	-9.3
5315204	6cqi(cleaned)	-9.3
5488907	6cqi(cleaned)	-9.3
122201291	6cqi(cleaned)	-9.2
100605	6cqi(cleaned)	-9.1
5280954	6cqi(cleaned)	-9.1
21575037	6cqi(cleaned)	-9
23648182	6cqi(cleaned)	-9
3085090	6cqi(cleaned)	-9
102115597	6cqi(cleaned)	-8.9
102115612	6cqi(cleaned)	-8.9
442021	6cqi(cleaned)	-8.8
633176	6cqi(cleaned)	-8.8
70702002	6cqi(cleaned)	-8.8
102115599	6cqi(cleaned)	-8.7
102115602	6cqi(cleaned)	-8.6
102115603	6cqi(cleaned)	-8.6
23635499	6cqi(cleaned)	-8.6
85634496	6cqi(cleaned)	-8.6
102115592	6cqi(cleaned)	-8.5
102115598	6cqi(cleaned)	-8.5
11969631	6cqi(cleaned)	-8.5
235224	6cqi(cleaned)	-8.5
23634636	6cqi(cleaned)	-8.5
5378702	6cqi(cleaned)	-8.5
78385284	6cqi(cleaned)	-8.5
23635746	6cqi(cleaned)	-8.4
42608134	6cqi(cleaned)	-8.4
441979	6cqi(cleaned)	-8.4
609842	6cqi(cleaned)	-8.4
72313	6cqi(cleaned)	-8.4
10220	6cqi(cleaned)	-8.3

102369791	6cqi(cleaned)	-8.3
131753084	6cqi(cleaned)	-8.3
135540424	6cqi(cleaned)	-8.3
182165	6cqi(cleaned)	-8.3
23634635	6cqi(cleaned)	-8.3
57494722	6cqi(cleaned)	-8.3
632772	6cqi(cleaned)	-8.3
71447337	6cqi(cleaned)	-8.3
72331	6cqi(cleaned)	-8.3
73073	6cqi(cleaned)	-8.3
73456709	6cqi(cleaned)	-8.3
102115609	6cqi(cleaned)	-8.2
118701147	6cqi(cleaned)	-8.2
23425628	6cqi(cleaned)	-8.2
23635383	6cqi(cleaned)	-8.2
251561	6cqi(cleaned)	-8.2
92854547	6cqi(cleaned)	-8.2
101936587	6cqi(cleaned)	-8.1
119204	6cqi(cleaned)	-8.1
134716588	6cqi(cleaned)	-8.1
23425626	6cqi(cleaned)	-8.1
276389	6cqi(cleaned)	-8.1
285343	6cqi(cleaned)	-8.1
441975	6cqi(cleaned)	-8.1
57519466	6cqi(cleaned)	-8.1
5761	6cqi(cleaned)	-8.1
601259	6cqi(cleaned)	-8.1
6473764	6cqi(cleaned)	-8.1
91618115	6cqi(cleaned)	-8.1
102115614	6cqi(cleaned)	-8
102115618	6cqi(cleaned)	-8
185716	6cqi(cleaned)	-8
23757	6cqi(cleaned)	-8
265756	6cqi(cleaned)	-8
296196	6cqi(cleaned)	-8
44358210	6cqi(cleaned)	-8
98477	6cqi(cleaned)	-8
101285909	6cqi(cleaned)	-7.9
102115619	6cqi(cleaned)	-7.9
131752933	6cqi(cleaned)	-7.9
629693	6cqi(cleaned)	-7.9
10154	6cqi(cleaned)	-7.8

101606428	6cqi(cleaned)	-7.8
102115610	6cqi(cleaned)	-7.8
146158801	6cqi(cleaned)	-7.8
193880	6cqi(cleaned)	-7.8
21769952	6cqi(cleaned)	-7.8
251422	6cqi(cleaned)	-7.8
3034034	6cqi(cleaned)	-7.8
353825	6cqi(cleaned)	-7.8
5471458	6cqi(cleaned)	-7.8
5486608	6cqi(cleaned)	-7.8
78358522	6cqi(cleaned)	-7.8
969488	6cqi(cleaned)	-7.8

Supplementary Table 3: Drug likeness prediction results of the top 105 Quinolones from Molsoft L.L.C

Ligand PubChem CID	Binding Energy (kcal/mol)	Model Score	Molecular weight:	Number of HBA	Number of HBD	MolLogP	MolPSA (Å ²)	MolVol (Å ³)	BBB Score
154574355	-11.1	0.13	409.12	4	0	5.57	41.92	390.4	3.83
24203533	-10.4	2.39	602.18	7	2	2.67	94.72	592.79	1.85
24203532	-9.9	2.22	562.15	7	3	2.48	103.8	531.11	1.82
67016608	-9.8	0.45	475.08	4	1	7.03	44.16	428.02	428.02
14661521	-9.7	-0.21	447.09	6	0	3.79	91.13	416.83	2.08
15506108	-9.7	-0.18	362.14	2	0	5.29	23.40	361.56	4.17
121302501	-9.6	0.2	408.06	5	1	2.61	61.41	380.17	3.19
54689660	-9.6	1.7	474.17	4	2	4.29	51.26	476.23	4.10
122441972	-9.6	-0.02	406.1	5	1	3.35	69.14	372.56	2.96
3245646	-9.6	0.61	463.14	8	1	0.41	95.06	456.06	2.15
23646775	-9.6	1.57	541.19	4	0	2.61	54.55	541.12	3.40
54722219	-9.4	1.19	404.13	3	3	3.68	51.62	399.57	4.24
122441951	-9.4	-0.7	433.13	4	1	4.82	58.89	421.58	3.38
100945192	-9.4	-0.25	390.07	5	1	3.37	67.49	359.52	2.57
100945198	-9.4	-0.33	394.1	5	1	3	68.39	397.71	2.87
14661522	-9.3	0.07	447.09	6	0	3.51	90.72	408.37	2.08
137797579	-9.3	0.9	438.12	8	1	0.66	102.55	398.89	2.42
100945203	-9.3	0.17	415.06	4	1	3.55	59.9	398.04	3.75
163839	-9.3	1.27	391.23	3	1	4.97	39.15	427.54	5.12
118911046	-9.3	0.81	319.18	4	0	2.69	34.03	309.22	4.98
4375181	-9.2	-0.21	289.07	3	1	2.87	51.24	291.84	3.91
20141773	-9.2	-0.18	393.11	4	1	2.7	64.49	378.21	3.65

131953858	-9.2	1.03	397.14	4	3	1.47	84.62	396.95	2.6
131953873	-9.2	0.65	489.2	6	3	1.96	106.74	503.85	1.68
132278185	-9.2	-1	511.16	4	0	5.95	48.72	578.48	3.97
14969509	-9.2	0.52	348.18	2	0	3.57	30.77	363.76	4.96
129729368	-9.1	0.38	383.2	2	1	4.1	30.19	398.33	5.01
9889060	-9.1	0.88	432.11	4	1	4.88	53.19	424.33	3.73
12899497	-9.1	1.17	399.17	3	1	3.67	39.45	399.08	5.16
131726344	-9.1	-0.5	458.18	7	3	1.98	116.42	485.86	1.8
129794977	-9.1	-1.05	388.09	3	0	3.3	42.72	398.98	4.26
132276292	-9.1	-0.93	327.1	4	1	2.8	58.26	324.07	3.91
135687073	-9.1	0.66	307.12	3	2	3.75	53.65	324.65	3.94
483150	-9.1	1.1	417.13	4	1	1.41	51.01	395.76	4.51
10096946	-9.1	1.11	486.11	5	3	2.31	82.53	465.93	2.15
18321596	-9.1	0.69	358.18	3	1	3.79	36.42	365.46	4.9
70418029	-9	-0.1	351.12	2	1	3.91	34.74	337.56	4.8
20141779	-9	-0.02	377.12	4	1	2.64	50.51	368.11	4.13
145997749	-9	0.6	555.1	7	1	2.5	84.4	580.74	2.54
100945202	-9	-0.46	381.1	4	1	2.88	59.9	380.85	3.68
10097037	-8.9	0.99	488.09	6	4	1.36	98.27	456.7	1.93
129862045	-8.9	-0.75	297.05	4	1	2.52	45.42	260.85	4.04
129706706	-8.9	0.72	399.01	8	1	2.72	73.07	329.48	2.53
131953874	-8.9	0.59	466.13	7	3	2.26	101.92	465.35	1.88
129878303	-8.9	-1.29	357.06	1	1	4.84	24.84	298.82	5
25249349	-8.9	0.04	373.11	3	1	3.66	40.4	367.46	4.37
85881877	-8.9	1.13	367.16	2	0	4.45	28.17	390.32	4.62
100945201	-8.9	0.25	411.03	4	1	3.81	59.3	360.84	3.44
20141784	-8.8	0.14	333.13	2	1	3.94	34.74	332.69	4.89
20150456	-8.8	0.08	342.14	3	1	3.89	39.19	348.68	4.53
121302509	-8.8	0.52	552.13	7	1	2.96	83.82	502.5	1.99
131953861	-8.8	1.01	423.18	5	3	1	93.48	439.66	2.4
21101785	-8.8	0.81	400.11	2	2	3.07	53.52	385.31	4.34
122442020	-8.8	0.32	374.11	4	1	4.65	39.37	359.55	4.65
10002122	-8.8	0.51	418.05	5	4	1.82	96.4	380.01	2.17
73011290	-8.8	-0.25	347.04	3	0	3.93	44.15	325.85	4.51
131953866	-8.8	0.87	436.12	6	3	2.23	94.38	433.43	2.08
465926	-8.8	0.69	403.11	4	3	0.14	66.45	369.02	3.8
135623862	-8.8	0.15	383.14	6	1	5.17	74.02	358.77	3.26
25249351	-8.8	0.16	319.12	3	1	2.77	40.92	347.96	4.72
483152	-8.8	0.43	403.11	4	2	1.01	59.49	375.02	4.17
2137248	-8.8	0.39	441.06	3	0	4.93	45.06	394.56	4.13
20141776	-8.8	-1.08	298.06	3	1	2.32	53.47	305.98	4.56
54677712	-8.8	0.13	446.97	3	1	5.96	29.53	380.73	4.57

54685600	-8.8	-0.05	345.08	3	1	4.31	29.53	334.88	4.58
20141789	-8.7	-0.02	361.12	3	1	4.49	34.74	364.53	4.84
145944253	-8.7	0.69	417.17	6	2	0.5	80.5	420.87	2.94
10412910	-8.7	0.57	480.03	6	3	1.81	106.52	425.03	1.91
54682999	-8.7	0.51	377.08	3	2	4.76	46.75	365.68	4.12
131953863	-8.7	0.97	380.15	5	3	0.34	94.04	386.33	2.73
633328	-8.7	-0.17	381.18	3	1	6	40.56	414.07	4.81
34177913	-8.7	1.22	421.11	4	0	5.46	41.85	401.92	4.15
135815586	-8.7	0.8	307.12	3	2	3.83	53.65	324.73	3.94
129843471	-8.7	-0.35	337.05	6	0	2.05	73.71	294.44	2.61
54702678	-8.7	0.77	391.1	3	2	5.7	46.66	383.42	4.11
483151	-8.7	0.89	417.13	4	2	0.99	59.08	392.37	4.18
131953880	-8.6	0.74	454.11	6	3	2.44	94.38	439.42	2.03
10432087	-8.6	0.57	416.07	4	3	2.42	75.31	392.12	2.94
131953879	-8.6	1.05	398.14	5	3	0.54	94.04	392.32	2.69
6447481	-8.6	0.11	389.11	3	0	4.81	44.2	380.61	4.14
10433988	-8.6	0.72	451.04	5	2	2.38	79.68	405.09	2.36
18918418	-8.6	1.05	426.21	3	0	3.87	38.97	430.39	4.77
19867092	-8.6	-0.65	264.1	3	1	1.72	52.57	285.17	4.51
136698772	-8.6	-0.54	397.14	5	3	4.22	71.59	408.27	2.48
10094246	-8.6	0.55	430.09	4	3	2.63	75.29	409.91	2.95
154236550	-8.6	-0.71	231.07	2	0	3.19	23.01	244.75	5.17
19021633	-8.6	0.14	336.08	3	0	2.65	39.71	317.65	4.58
23646771	-8.6	0.82	480.14	4	0	4.21	50.57	480.32	3.62
56208	-8.6	0.68	385.12	4	2	0.6	58.64	367.92	4.17
10043403	-8.6	0.23	349.13	4	1	3.63	56.7	359.92	3.65
10338561	-8.6	-0.37	360.11	4	1	2.81	63.69	378.27	2.97
54680747	-8.6	0.17	383.07	3	1	4.73	30.13	389.27	4.9
54682505	-8.6	0.25	363.07	3	2	4.69	46.66	345.82	4.13
53387189	-8.5	0.63	422.26	3	1	5.52	48.71	485.43	4.14
101681493	-8.5	-1.3	520.08	1	1	5.8	27.92	434.8	4.31
129843714	-8.5	-0.55	337.05	6	0	2.05	73.41	294.55	2.61
131953860	-8.5	0.89	393.17	4	3	1.05	85.94	407.81	2.59
5350830	-8.5	0.34	289.11	2	1	3.75	37.1	319.86	4.75
16727326	-8.5	1.12	380.19	2	0	6.1	19.96	387.65	4.27
23646773	-8.5	1.11	456.14	3	0	2.03	41.56	483.05	4.2
54680587	-8.5	0.36	349.02	4	1	2.23	59.95	303.76	3.68
135687077	-8.5	0.21	323.08	5	2	2.41	74.83	328.25	2.9
5663	-8.5	0.05	395.18	4	1	1.23	60.23	405.68	3.94
62959	-8.5	0.65	416.11	5	3	0.07	77.42	386.17	3.16
69306516	-8.5	1.27	477.01	5	2	3.48	72.62	386.66	2.34

Supplementary Table 4: Drug likeness prediction results of the top 101 Alkaloids from Molsoft L.L.C

Ligand PubChem CID	Binding Energy (kcal/mol)	Model Score	Molecular Weight	Number of HBA	Number of HBD	MolLogP	MolPSA (Å ²)	MolVol (Å ³)	BBB Score
433181	-11.2	0.31	477.26	5	1	4.67	53.77	591.85	3.66
90478901	-11.2	-0.7	630.53	6	3	3.53	45.74	728.19	3.16
6000	-11.1	1.11	609.3	7	2	5.06	63.13	634.21	2.89
179594	-10.2	1.3	558.22	7	0	6.12	49.21	562.13	3.33
23635382	-10.2	1.19	603.44	5	2	5.74	65.78	718.04	3.46
253793	-10.1	1.07	594.27	8	2	4.61	67.1	611.28	2.59
146033259	-10	0.99	451.25	5	2	2.18	69.77	518.1	3.43
99954	-10	0.97	578.24	8	2	4.89	66.94	588.71	2.54
101427402	-9.7	1.13	589.33	6	3	4.26	94.59	589.33	2.36
146033257	-9.7	0.72	449.23	5	1	2.01	67.39	518.63	3.46
177184	-9.5	-0.64	365.09	7	0	3.49	57.23	358.77	4.09
102115604	-9.4	0.52	363.16	5	2	2.83	61.03	362.37	3.78
146033258	-9.4	0.41	439.25	5	4	0.97	85.9	500.54	2.28
102115606	-9.3	-0.83	494.31	6	0	6.56	34.39	538.21	4.8
198004	-9.3	1.16	624.32	6	2	5.45	59.17	657.13	2.54
5154	-9.3	-1	332.09	4	0	4.81	34.93	324.68	4.13
5315204	-9.3	0.07	435.2	6	1	4.99	55.11	466.58	4.17
5488907	-9.3	0.36	568.26	8	4	2.36	83.76	617.43	2.56
122201291	-9.2	1.11	561.3	6	3	3.15	94.45	617.8	2.42
100605	-9.1	-1.19	263.06	3	0	3.51	32.1	254.82	4.69
5280954	-9.1	1.05	634.29	10	1	5.01	91.26	661.28	1.84
21575037	-9	0.78	457.36	4	2	5.85	48.45	539.81	3.88
23648182	-9	0.54	484.37	5	1	4.85	50.79	586.49	3.33
3085090	-9	1.18	608.29	8	1	5.25	58.18	631.92	2.9
102115597	-8.9	0.47	366.16	4	1	2.25	64.34	423.57	3.69
102115612	-8.9	0.25	394.13	6	0	3.53	50.03	384.96	4.03
442021	-8.8	0.57	394.19	5	0	1.38	42.88	438.23	4.74
633176	-8.8	0.4	391.18	4	2	6.1	54.83	438.36	4
70702002	-8.8	0.23	450.26	4	2	3.76	60.46	464.72	4.12
102115599	-8.7	0.51	354.19	4	2	2.08	52.86	396.76	4.28
102115602	-8.6	-0.04	311.13	4	1	0.21	64.25	321.82	3.07
102115603	-8.6	0.62	305.15	3	2	2.55	39.77	305.54	4.9
23635499	-8.6	1.19	497.4	4	2	4.93	54.68	613.39	3.25
85634496	-8.6	0.57	326.16	3	2	1.97	57.07	353.99	3.94
102115592	-8.5	0.36	335.19	3	0	4.95	22.42	342.77	5.59

102115598	-8.5	0.44	350.16	3	1	2.64	50.55	403.38	4.17
11969631	-8.5	0.05	351.17	7	2	0.74	79.37	402.24	2.33
235224	-8.5	0	279.13	3	0	3.17	19.59	290.69	5.67
23634636	-8.5	1.35	516.39	5	3	3.68	74.23	627.27	2.69
5378702	-8.5	0.11	323.12	4	2	3.85	56.21	336.24	3.94
78385284	-8.5	-0.43	371.14	7	2	1.8	69.9	369.02	3.29
23635746	-8.4	1.5	530.41	5	3	4.12	74.23	645.41	2.68
42608134	-8.4	-0.25	330.07	7	1	1.59	78.22	352.75	2.67
441979	-8.4	-0.27	348.15	4	0	2.33	41.19	397.46	4.52
609842	-8.4	-0.59	385.15	7	1	1.61	60.98	389.02	4.05
72313	-8.4	0.18	382.19	5	1	3.17	50.49	411.53	4.56
10220	-8.3	1.18	341.16	5	1	2.87	42.51	353.66	4.97
102369791	-8.3	0.51	309.2	1	1	4.34	18.06	359.36	4.92
131753084	-8.3	0.71	341.08	3	1	4.23	39.53	336.11	4.77
135540424	-8.3	-0.04	391.19	4	3	4.1	74.35	495.95	2.56
182165	-8.3	-0.14	369.12	7	2	2.05	72.24	382.99	3.1
23634635	-8.3	1.35	516.39	5	3	3.68	74.23	627.27	2.69
57494722	-8.3	0	248.13	1	1	4.37	19.8	260.48	5.19
632772	-8.3	-0.14	369.12	7	2	2.05	72.24	382.99	3.1
71447337	-8.3	-1.56	366	2	4	5.22	52.23	300.91	3.44
72331	-8.3	0.66	531.25	10	2	1.48	101.48	591.25	2.25
73073	-8.3	-0.27	348.15	4	0	2.33	41.19	397.46	4.52
73456709	-8.3	0.45	284.17	2	2	2.49	37.81	290.41	4.93
102115609	-8.2	-0.87	313.17	4	0	3.62	27.95	360.14	5.32
118701147	-8.2	-0.27	400.38	2	1	5.31	15.47	534.23	4.78
23425628	-8.2	-0.52	389.21	2	3	5.66	60.16	495.56	3.95
23635383	-8.2	1.46	515.41	5	4	3.02	78.78	629.01	2.14
251561	-8.2	0.47	352.18	4	1	2.9	42.95	379.61	4.94
92854547	-8.2	0.68	507.28	9	1	1.29	77.18	558.92	2.03
101936587	-8.1	0.16	345.23	4	3	1.23	50.14	401.07	3.66
119204	-8.1	0	279.13	3	0	3.17	19.59	290.69	5.67
134716588	-8.1	-0.81	304.19	0	1	5.35	22.13	368.45	4.31
23425626	-8.1	-0.82	321.15	2	3	3.59	60.16	393.35	3.9
276389	-8.1	0.66	531.25	10	2	1.48	101.48	591.25	2.25
285343	-8.1	0.02	331.14	6	2	0.12	59.72	358.59	3.78
441975	-8.1	0.47	352.18	4	1	2.9	42.95	379.61	4.94
57519466	-8.1	1.23	586.33	9	4	1.69	102.07	610.98	1.9
5761	-8.1	0.45	323.2	2	1	3.08	28.8	369.6	5.5
601259	-8.1	0.62	327.15	5	2	2.62	51.34	331.87	4.52
6473764	-8.1	1.15	405.29	5	1	3.84	53.45	490.59	3.6
91618115	-8.1	1.11	449.28	7	2	1.83	68.03	487.94	2.48
102115614	-8	0.49	336.18	4	0	2.51	33.31	375.75	5.11

102115618	-8	-0.14	325.13	5	0	3.53	41.19	381.63	4.41
185716	-8	-0.53	395.19	8	1	1.52	83.04	447.73	2.34
23757	-8	1	385.15	6	2	0.68	76.56	444.02	2.57
265756	-8	-0.27	400.38	2	1	5.31	15.47	534.23	4.78
296196	-8	-0.92	313.17	4	0	3.65	27.95	364.41	5.19
44358210	-8	0.59	359.32	2	0	4.72	10.37	449.54	4.72
98477	-8	0.02	331.14	6	2	0.12	59.72	358.59	3.78
101285909	-7.9	-0.51	327.15	5	0	3.01	35.57	381.62	4.71
102115619	-7.9	-0.38	325.13	4	0	2.94	41.3	383	4.54
131752933	-7.9	0.65	365.2	3	1	5.12	39.05	409.49	4.72
629693	-7.9	0.93	324.18	3	0	3.05	25.42	366.43	5.41
10154	-7.8	0.76	327.15	5	2	2.48	51.23	338.58	4.49
101606428	-7.8	1.48	526.38	5	2	4.79	65.36	660.22	3.07
102115610	-7.8	-0.52	329.16	5	1	2.65	43.51	368.63	4.59
146158801	-7.8	0.13	352.18	4	0	2.61	36.2	379.23	5.08
193880	-7.8	0.33	405.19	5	1	5.77	45.41	417.51	4.53
21769952	-7.8	0.74	385.15	6	2	0.87	76.74	445.52	2.57
251422	-7.8	0.47	352.22	3	0	2.7	26.44	405.02	5.3
3034034	-7.8	0.82	324.18	4	1	3.21	35.65	339.59	5.3
353825	-7.8	0.5	279.09	3	0	3.21	31.91	281.29	5.01
5471458	-7.8	0.47	311.15	3	1	3.53	39.18	328.81	4.75
5486608	-7.8	0.81	285.14	4	2	0.93	42.59	308.69	4.68
78358522	-7.8	0.75	661.31	13	4	-0.26	132.94	680.53	1.18