

Title: miR-877-3p targets Smad7 and is associated with myofibroblast differentiation and bleomycin-induced lung fibrosis

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Supplemental Information

Supplementary Table S1 The entire list of profiled miRNA in lung resident mesenchymal stem cells following TGF- β 1-induced myofibroblast differentiation

Assay	Fold-change(TGF- β 1/Control)	P-value
mmu-miR-877-3p	423.180	0.0218507
mmu-miR-497	289.158	0.0218864
mmu-miR-141	100.550	0.0219615
mmu-miR-1188	95.116	0.0220154
mmu-miR-135a	87.659	0.0221247
mmu-miR-541	75.057	0.0222315
mmu-miR-466J	69.987	0.0223636
rno-miR-327	68.916	0.0224444
mmu-miR-1956	65.876	0.0224753
mmu-miR-369-5p	59.520	0.0225365
mmu-miR-342-5p	52.496	0.0225556
mmu-miR-322#	51.806	0.0226004
rno-miR-99a#	46.179	0.0228223
mmu-miR-551b	42.938	0.0228599
mmu-miR-190	41.566	0.0228745
mmu-miR-202-3p	36.158	0.0228974
mmu-miR-493	35.821	0.0231079
mmu-miR-196b	34.326	0.0231122
mmu-miR-448	30.534	0.0231566
rno-miR-758	30.285	0.0233726
mmu-miR-295	27.431	0.0233974
mmu-miR-1186	27.345	0.0234503
mmu-miR-200c	24.499	0.0234544
mmu-miR-297a#	21.878	0.0234611
mmu-miR-136#	20.736	0.0235529
rno-miR-743b	20.307	0.0237209
mmu-miR-672	17.205	0.023817
mmu-miR-1982.2	16.930	0.0238287
mmu-miR-1939	16.397	0.023875
mmu-miR-669n	16.286	0.0238942
mmu-miR-16#	16.274	0.0239037
mmu-miR-1894-3p	15.404	0.0240543
mmu-miR-301b	14.420	0.0241593
hsa-miR-33a#	14.152	0.024188
mmu-miR-129-5p	12.345	0.024388
mmu-miR-107	12.262	0.0244387

mmu-miR-665	11.897	0.0244408
mmu-miR-542-5p	11.583	0.0244711
mmu-miR-1933-5p	11.077	0.0244787
hsa-miR-30d#	10.949	0.0245249
mmu-miR-193	10.863	0.0245368
mmu-miR-1960	10.809	0.0247115
mmu-miR-188-5p	10.632	0.0248069
mmu-miR-185	10.552	0.0248759
mmu-miR-345	10.359	0.0249034
mmu-miR-1928	10.294	0.0249208
mmu-miR-183	10.141	0.0249339
hsa-miR-23a#	10.100	0.0249456
mmu-miR-344	10.097	0.0249628
mmu-miR-133a	10.078	0.0249926
mmu-miR-412	9.701	0.0251105
mmu-miR-708	9.619	0.0252215
mmu-miR-542-3p	9.449	0.0252373
mmu-miR-10a	9.406	0.0253257
mmu-miR-339-5p	9.279	0.0254089
rno-miR-743a	9.020	0.0256511
mmu-miR-1897-3p	8.975	0.0256968
hsa-miR-29a#	8.951	0.025715
mmu-miR-706	8.888	0.0257295
mmu-miR-1982.1	8.870	0.0257795
mmu-miR-489	8.616	0.0259303
rno-miR-29c#	8.329	0.02599
mmu-miR-1193	8.291	0.0260915
mmu-miR-466k	7.814	0.0261578
mmu-miR-138#	7.765	0.0261794
mmu-miR-669a	7.625	0.0261939
mmu-miR-376a#	7.552	0.0262237
mmu-miR-367	7.251	0.0264607
hsa-miR-28-3p	7.003	0.0265669
mmu-miR-208	6.819	0.0266524
mmu-miR-467b	6.813	0.0266544
mmu-miR-673-3p	6.804	0.02688
mmu-miR-466g	6.606	0.0270587
mmu-miR-491	6.355	0.0271583
mmu-miR-592	6.264	0.0271869
mmu-miR-1961	6.105	0.0272028
mmu-let-7a	6.094	0.0272067
mmu-miR-423-5p	6.063	0.0273226
mmu-miR-21	5.919	0.027367

mmu-miR-299	5.832	0.0274791
hsa-miR-27b#	5.785	0.0275249
U87	5.731	0.0276101
mmu-miR-299	5.703	0.0276448
rno-miR-382#	5.684	0.0277111
hsa-miR-455	5.521	0.0278347
mmu-miR-652	5.487	0.0278601
mmu-miR-125b#	5.476	0.0278804
mmu-miR-194	5.470	0.0279679
mmu-miR-331-5p	5.453	0.0282164
mmu-miR-199b	5.355	0.0283966
mmu-miR-337-5p	5.312	0.02844
mmu-miR-547	5.236	0.0284422
mmu-miR-1905	5.219	0.0285794
mmu-miR-873	5.196	0.0285853
mmu-miR-2183	5.167	0.0286859
mmu-miR-292-3p	5.057	0.0287
mmu-miR-199a-5p	4.985	0.0287258
hsa-miR-149	4.978	0.0287598
mmu-miR-346	4.930	0.0287915
mmu-miR-150	4.846	0.0287973
mmu-miR-700	4.841	0.029056
mmu-miR-181a	4.806	0.0290699
hsa-miR-213	4.775	0.0291006
mmu-miR-485-3p	4.738	0.029156
mmu-miR-687	4.729	0.0291958
mmu-let-7c-1#	4.613	0.0292239
mmu-miR-376b#	4.571	0.029264
mmu-miR-463	4.471	0.0292921
mmu-miR-805	4.429	0.029507
mmu-miR-496	4.392	0.029511
hsa-miR-196a	4.341	0.0295309
mmu-miR-15a#	4.284	0.029557
mmu-miR-434-5p	4.281	0.0297581
hsa-miR-493-3p	4.279	0.0297729
mmu-miR-155	4.267	0.0297864
mmu-miR-146a	4.257	0.0298448
mmu-miR-1839-5p	4.234	0.0298496
rno-miR-664	4.164	0.0298942
mmu-miR-31#	4.133	0.0299634
mmu-miR-1896	4.088	0.0300076
snoRNA135	4.000	0.0300426
mmu-miR-215	3.999	0.0300743

hsa-miR-140-3p	3.961	0.0300919
hsa-miR-590-3P	3.957	0.0301587
snoRNA135	3.896	0.0301653
mmu-miR-878-3p	3.887	0.0302741
mmu-miR-10b	3.880	0.0303482
hsa-miR-136#	3.840	0.0304846
mmu-miR-674#	3.832	0.0306169
mmu-miR-324-5p	3.797	0.0306496
rno-miR-532-5p	3.784	0.0306656
mmu-miR-196a#	3.781	0.0306882
hsa-miR-875-5p	3.668	0.0308036
mmu-miR-2146	3.652	0.0308245
mmu-miR-743a	3.635	0.0308853
mmu-miR-192	3.632	0.0309244
hsa-miR-154#	3.607	0.0309309
mmu-let-7c	3.561	0.0311791
rno-miR-20b	3.550	0.031236
mmu-miR-340-5p	3.537	0.0312462
mmu-miR-182	3.531	0.0312813
hsa-miR-411#	3.520	0.0312951
mmu-miR-696	3.499	0.0312992
hsa-miR-22#	3.456	0.0314078
mmu-miR-18a	3.437	0.0314171
hsa-miR-421	3.410	0.0314175
mmu-miR-467d	3.407	0.0314423
mmu-miR-467a	3.353	0.0314651
mmu-miR-543	3.343	0.0314674
mmu-miR-467a	3.341	0.0314935
mmu-miR-1948	3.281	0.0315254
mmu-miR-101b	3.271	0.0315549
mmu-miR-1971	3.196	0.0316617
mmu-miR-2182	3.196	0.0317061
mmu-miR-669m	3.187	0.0317287
mmu-miR-1944	3.115	0.0317701
mmu-miR-29b	3.064	0.0317992
hsa-miR-151-5P	3.048	0.0319828
mmu-miR-881#	3.037	0.0319991
mmu-miR-370	3.012	0.0320717
rno-miR-148b-5p	3.002	0.0320789
mmu-let-7d	2.990	0.0321423
mmu-let-7e	2.979	0.0321748
hsa-miR-200c	2.942	0.0322222
rno-miR-350	2.935	0.0323288

rno-miR-381	2.926	0.0323519
hsa-miR-27a#	2.911	0.0323519
mmu-miR-2134	2.906	0.0323544
mmu-miR-130b#	2.886	0.0323551
mmu-miR-467b	2.856	0.0323618
mmu-miR-487b	2.850	0.0323768
mmu-miR-1937b	2.832	0.0324939
mmu-miR-361	2.827	0.0325479
mmu-miR-465a-5p	2.794	0.0325479
mmu-miR-125b-5p	2.751	0.0325479
mmu-miR-214	2.747	0.0325479
mmu-miR-433	2.721	0.0325479
mmu-miR-804	2.711	0.0325767
snoRNA202	2.693	0.03258
mmu-miR-101a	2.647	0.0327789
mmu-miR-466a-3p	2.644	0.0328365
rno-miR-343	2.612	0.0328755
mmu-miR-290-5p	2.600	0.0329161
mmu-miR-7a	2.588	0.0329433
mmu-miR-495	2.579	0.0329484
mmu-miR-467F	2.551	0.0329755
mmu-miR-2135	2.539	0.033041
mmu-let-7a#	2.496	0.0331154
mmu-miR-224	2.494	0.0331691
mmu-miR-345-5p	2.493	0.0333205
mmu-miR-128a	2.489	0.0336463
mmu-miR-125b-3p	2.477	0.0336492
hsa-miR-183#	2.440	0.0337056
mmu-miR-34c#	2.426	0.0337302
hsa-miR-744#	2.422	0.0337489
mmu-miR-669l	2.418	0.033793
hsa-miR-214	2.415	0.0338634
mmu-miR-127	2.412	0.033881
hsa-miR-200c#	2.411	0.0339174
mmu-miR-328	2.406	0.0339265
mmu-miR-503	2.404	0.0340003
mmu-miR-409-5p	2.403	0.0340498
mmu-miR-744	2.402	0.0340507
mmu-miR-17#	2.377	0.0341888
mmu-miR-1274a	2.368	0.0342138
mmu-miR-98	2.363	0.0342577
mmu-miR-1949	2.362	0.0342752
rno-miR-7a#	2.358	0.0342903

mmu-miR-470#	2.344	0.0343022
mmu-miR-216a	2.343	0.0343145
mmu-miR-23b	2.340	0.0343164
hsa-miR-15b#	2.331	0.0343541
mmu-miR-148b	2.319	0.034433
mmu-miR-329	2.303	0.0344639
rno-miR-7#	2.293	0.0346168
mmu-miR-376a	2.282	0.0346824
mmu-miR-34c	2.278	0.0346858
rno-miR-632	2.272	0.0347518
mmu-miR-193#	2.246	0.0347772
hsa-miR-106b#	2.243	0.0348278
mmu-miR-382	2.227	0.0348347
mmu-miR-20a	2.215	0.034852
hsa-miR-22	2.210	0.0348879
mmu-miR-872#	2.208	0.0350129
mmu-miR-409-3p	2.205	0.0350149
mmu-miR-15a	2.201	0.0350585
mmu-miR-24-2#	2.196	0.0351828
mmu-let-7b	2.184	0.0353449
mmu-miR-211	2.167	0.035377
hsa-miR-93#	2.165	0.0358401
mmu-miR-340-3p	2.159	0.0358841
mmu-miR-210	2.152	0.035973
mmu-miR-140	2.150	0.0362217
mmu-miR-362-3p	2.142	0.0362502
mmu-miR-1937c	2.141	0.0363422
mmu-miR-218-1#	2.138	0.0363626
mmu-miR-139-5p	2.120	0.0363762
hsa-miR-378	2.118	0.0365431
hsa-miR-340	2.101	0.0365655
mmu-miR-667	2.096	0.0367463
mmu-miR-337	2.096	0.0367481
mmu-miR-881	2.075	0.0370294
hsa-miR-423-3P	2.052	0.0370464
mmu-miR-374-5p	2.039	0.037054
snoRNA202	2.035	0.0371403
mmu-miR-1969	2.034	0.0371968
mmu-miR-712	2.030	0.0373512
mmu-miR-467H	2.028	0.0374167
mmu-miR-380-5p	2.012	0.0374295
mmu-miR-674	2.003	0.0375104
mmu-miR-204	2.001	0.037581

mmu-miR-685	2.000	0.0375979
mmu-miR-1903	0.489	0.0163889
rno-miR-146B	0.479	0.0164098
mmu-miR-9	0.478	0.0166278
mmu-miR-503#	0.476	0.0166351
mmu-miR-697	0.471	0.0166767
rno-miR-673	0.464	0.0166852
mmu-miR-721	0.442	0.0167017
mmu-miR-222	0.434	0.0167518
mmu-miR-1306	0.430	0.0167613
mmu-miR-218	0.414	0.0167781
mmu-miR-1981	0.409	0.0169408
hsa-miR-9#	0.400	0.0171027
rno-miR-345-3p	0.399	0.017162
rno-miR-125b#	0.390	0.0172665
mmu-miR-103	0.367	0.017272
mmu-miR-676#	0.365	0.0174461
mmu-miR-449a	0.353	0.017475
hsa-miR-143	0.335	0.0175381
mmu-miR-339-3p	0.328	0.0177589
mmu-miR-669D	0.321	0.0177835
rno-miR-351	0.319	0.0178467
mmu-let-7g#	0.316	0.0179363
mmu-miR-187	0.315	0.0179804
mmu-miR-1198	0.280	0.0180724
hsa-miR-10a#	0.280	0.0182429
hsa-miR-425	0.276	0.0183714
mmu-miR-466h	0.262	0.0184475
mmu-miR-590-5p	0.222	0.0185203
mmu-miR-741	0.205	0.018544
mmu-miR-181c	0.201	0.0186175
mmu-miR-154	0.190	0.0186945
mmu-miR-137	0.166	0.0188221
mmu-miR-200a	0.164	0.0188733
mmu-miR-668	0.159	0.0189153
mmu-miR-302a	0.158	0.0189202
mmu-miR-375	0.151	0.0190783
mmu-miR-770-3p	0.144	0.0191027
mmu-miR-449b	0.144	0.0191636
mmu-miR-467e#	0.121	0.0192722
mmu-miR-742#	0.108	0.0192877
mmu-miR-666-3p	0.101	0.0194622
mmu-miR-450a-5p	0.086	0.0196347

rno-miR-339-3p	0.072	0.0199237
mmu-miR-450a-3p	0.071	0.0201402
hsa-miR-1197	0.070	0.0201507
mmu-miR-362-5p	0.060	0.0203493
mmu-miR-126-5p	0.034	0.0204822