

**Table S2. Binding sites in *MITF-M* promoter**

Transcript Accession # NM\_00248

Genome Assembly: hg18

Location	+/-	BLS	BLS	NLOD	Z-Score	FDR	Motif ID	TF Name	Gene	Distance (bp)	Region
chr3:70067507..70067514	+	1.684	2.089	1	4.054	0.074	0	MAFA	MITF	-933	Upstream
chr3:70067506..70067512	-	1.41	2.089	1	3.817	0.055	0	MAFB	MITF	-928	Upstream
chr3:70067895..70067902	+	1.931	2.612	1	3.81	0.035	0	ETS2	MITF	-545	Upstream
chr3:70067982..70068000	-	0.192	1.031	0.823	4.686	0.201	0.067494	GCNF	MITF	-440	Upstream
chr3:70068047..70068055	-	1.143	1.467	1	4.192	0.163	0.103395	STAT1	MITF	-385	Upstream
chr3:70068177..70068188	+	1.355	2.376	0.916	4.485	0.288	0	Pax	MITF	-263	Upstream
chr3:70068202..70068211	+	2.029	2.705	0.977	4.459	0.012	0	SF1	MITF	-238	Upstream
chr3:70068202..70068210	+	1.938	2.607	0.973	4.362	0.022	0	SF1	MITF	-238	Upstream
chr3:70068202..70068209	+	2.677	2.737	1	3.933	0.488	0.164887	NURR1	MITF	-238	Upstream
chr3:70068277..70068288	+	1.573	2.515	0.919	4.403	0.028	0.017217	CREB	MITF	-163	Upstream
chr3:70068279..70068288	+	2.139	2.737	0.968	4.596	0.014	0.005239	CREB, ATF	MITF	-161	Upstream
chr3:70068280..70068288	+	2.515	2.515	1	4.856	0.013	0	ATF2:c-Jun	MITF	-160	Upstream
chr3:70068280..70068288	+	2.515	2.515	1	4.782	0.035	0.015874	CREB	MITF	-160	Upstream
chr3:70068280..70068288	-	2.515	2.515	1	4.856	0.013	0	ATF2:c-Jun	MITF	-152	Upstream
chr3:70068280..70068288	-	2.515	2.515	1	4.782	0.035	0.015874	CREB	MITF	-152	Upstream
chr3:70068280..70068289	-	2.135	2.737	0.927	4.296	0.019	0.00943	CREB, ATF	MITF	-151	Upstream
chr3:70068379..70068396	+	0.925	2.312	0.908	4.662	0.195	0.126351	Octamer	MITF	-61	Upstream
chr3:70068379..70068395	+	0.526	2.312	0.842	4.447	0.12	0.054055	HOXA1	MITF	-61	Upstream
chr3:70068379..70068395	+	0.002	2.312	0.858	4.279	0.296	0.215901	Barhl-1	MITF	-61	Upstream
chr3:70068380..70068397	+	1.233	2.312	0.918	4.936	0.1	0.065	K-2b	MITF	-60	Upstream
chr3:70068380..70068397	+	1.316	2.312	0.934	4.73	0.084	0.032656	ALX-3	MITF	-60	Upstream
chr3:70068380..70068397	+	1.729	2.312	0.894	4.689	0	0	Lhx4	MITF	-60	Upstream
chr3:70068380..70068397	+	1.145	2.312	0.9	4.447	0.171	0.07348	LH-2	MITF	-60	Upstream
chr3:70068380..70068397	+	0.559	2.312	0.881	4.42	0.173	0.106641	Evx-1	MITF	-60	Upstream
chr3:70068380..70068397	+	0.043	2.312	0.857	4.319	0.17	0.14261	Pax-4	MITF	-60	Upstream
chr3:70068381..70068397	+	0.35	2.312	0.902	4.284	0.165	0.064201	Barx-2	MITF	-59	Upstream
chr3:70068381..70068397	+	0.002	2.312	0.882	4.278	0.202	0.101899	ipf1	MITF	-59	Upstream
chr3:70068382..70068396	+	1.735	2.737	0.908	4.759	0.083	0.054038	CHX10	MITF	-58	Upstream
chr3:70068384..70068394	-	0.835	2.312	0.965	4.437	0.082	0.001928	ipf1	MITF	-46	Upstream
chr3:70068379..70068395	-	0.338	2.312	0.877	4.444	0.233	0.156188	HOXA5	MITF	-45	Upstream
chr3:70068379..70068395	-	0.368	2.312	0.915	4.394	0.183	0.075767	Barx-2	MITF	-45	Upstream
chr3:70068379..70068395	-	0.077	2.312	0.851	4.343	0.29	0.206274	HoxA2	MITF	-45	Upstream
chr3:70068379..70068396	-	1.738	2.312	0.954	5.255	0	0	Lhx4	MITF	-44	Upstream
chr3:70068379..70068396	-	1.318	2.312	0.941	4.79	0.094	0.030396	ALX-3	MITF	-44	Upstream
chr3:70068379..70068396	-	1.158	2.312	0.932	4.736	0.207	0.080117	LH-2	MITF	-44	Upstream
chr3:70068379..70068396	-	0.767	2.312	0.889	4.657	0.107	0.053699	Gbx2	MITF	-44	Upstream
chr3:70068379..70068396	-	0.568	2.312	0.892	4.523	0.194	0.120386	Evx-1	MITF	-44	Upstream
chr3:70068379..70068396	-	0.364	2.312	0.874	4.47	0.23	0.151346	EMX2	MITF	-44	Upstream
chr3:70068379..70068396	-	0.211	2.312	0.849	4.422	0.236	0.038607	lhx6.1	MITF	-44	Upstream

chr3:70068379..70068396	-	0.284	2.312	0.893	4.395	0.148	0.099891	Shox2	MITF	-44	Upstream
chr3:70068379..70068396	-	0.043	2.312	0.857	4.314	0.166	0.139458	Pax-4	MITF	-44	Upstream
chr3:70068379..70068396	-	1.214	2.312	0.852	4.309	0.068	0.04563	K-2b	MITF	-44	Upstream
chr3:70068381..70068397	-	0.536	2.312	0.857	4.596	0.131	0.054031	HOXA1	MITF	-43	Upstream
chr3:70068380..70068397	-	0.111	2.312	0.881	4.34	0.247	0.166681	Esx1	MITF	-43	Upstream
chr3:70068383..70068397	-	0.162	2.312	0.91	4.337	0.178	0.127473	HOXA3	MITF	-43	Upstream
chr3:70068383..70068397	-	0.024	2.312	0.898	4.293	0.191	0.141397	Dlx-1	MITF	-43	Upstream
chr3:70068426..70068435	-	1.504	2.376	0.929	4.531	0.113	0.047217	ELK4	MITF	-5	Upstream
chr3:70069036..70069046	-	0.464	1.935	0.982	4.519	0.49	0.078064	Nkx2-2	MITF	606	Downstream
chr3:70069118..70069135	-	0.077	1.184	0.859	4.417	0.491	0.34801	Otx2	MITF	695	Downstream
chr3:70069426..70069443	+	0.129	1.137	0.871	4.43	0.221	0.138776	PMX2B	MITF	986	Downstream
chr3:70069426..70069442	+	0.309	1.621	0.893	4.404	0.172	0.094936	PMX2A	MITF	986	Downstream
chr3:70069427..70069444	+	0.271	1.071	0.869	4.428	0.157	0.134465	Pax-4	MITF	987	Downstream
chr3:70069427..70069444	+	0.222	1.796	0.872	4.408	0.165	0.115194	POU6F1	MITF	987	Downstream
chr3:70069427..70069444	+	0.133	1.399	0.883	4.303	0.14	0.098622	Shox2	MITF	987	Downstream
chr3:70069429..70069443	+	1.155	2.098	0.89	4.604	0.142	0.086475	CHX10	MITF	989	Downstream
chr3:70069427..70069441	-	1.147	2.098	0.851	4.27	0.103	0.071226	CHX10	MITF	1001	Downstream
chr3:70069426..70069443	-	0.121	1.251	0.869	4.502	0.396	0.311282	HOXC4	MITF	1003	Downstream
chr3:70069426..70069443	-	0.107	1.031	0.883	4.453	0.48	0.331461	HOXC5	MITF	1003	Downstream
chr3:70069426..70069443	-	0.122	1.39	0.858	4.343	0.229	0.179117	Alx-4	MITF	1003	Downstream