

 THE GENETIC MAPPING TOOLS		SNOW	GHOSTWHITE	FLORALWHITE	SEASHELL	OLDLACE	LINEN	ANTIQUWHITE	PAPAYAWHIP	BLANCHEDALMOND	BISQUE	PEACHPUFF	NAVAJOWHITE	MOCCASIN	LEMONCHIFFON	CORNSILK
255/250/250	248/248/255	255/250/240	255/250/240	255/245/238	253/245/230	250/240/230	250/235/215	255/239/213	255/235/205	255/228/196	255/218/185	255/222/173	255/228/181	255/250/205	255/248/220	
IVORY	HONEYDEW	MINTCREAM	AZURE	ALICEBLUE	LAVENDER	LAVENDERBLUSH	MISTYROSE1	MISTYROSE2	MIDNIGHTBLUE	NAVY	NAVYBLUE	CORNFLAKE	DARKSLATEBLUE	SLATEBLUE	MEDIUMSLATEBLUE	
255/255/240	240/255/240	245/255/250	240/255/255	240/248/255	230/230/250	255/240/245	255/228/225	25/25/112	135/206/235	135/206/250	119/136/153	112/128/144	176/196/222	173/216/230	224/255/255	176/224/230
LIGHTSLATEBLUE	MEDIUMSLATEBLUE	ROYALBLUE	BLUE	DARKBLUE	DOGBERBLUE	STEELBLUE	DEEPSKYBLUE	SKYBLUE	LIGHTSKYBLUE	LIGHTSLATEGRAY	SLATEGRAY	LIGHTSTEELBLUE	LIGHTBLUE	LIGHTCYAN	POWDERBLUE	
132/112/255	0/0/205	65/105/225	0/0/255	0/0/139	30/144/255	70/130/180	0/191/255	135/206/235	135/206/250	119/136/153	112/128/144	176/196/222	173/216/230	224/255/255	176/224/230	
PALETURQUOISE	CADETBUE	DARKTURQUOISE	MEDIUMTURQUOISE	TURQUOISE	CYAN	DARKCYAN	DARKSLATEGRAY	MEDIUMAQUAMARINE	AQUAMARINE	DARKGREEN	LIGHTGREEN	DARKSEAGREEN	SEAGREEN	MEDIUMSEAGREEN	LIGHTSEAGREEN	
175/238/238	95/158/160	0/206/209	72/209/204	64/224/208	0/255/255	0/139/139	47/79/79	102/205/170	127/255/121	0/100/0	144/238/144	143/188/143	46/139/87	60/179/113	32/178/170	
PALEGREEN	SPRINGGREEN	LAWNGREEN	GREEN	CHARTREUSE	MEDIUMSPRINGGREEN	GREENYELLOW	LIMEGREEN	LIGHTGREEN	FORESTGREEN	OLIVEDRAB	DARKOLIVEDRAB	DARKKHAKI	KHAKI	PALEGOLDENROD	LIGHTGOLDENROD	
152/251/152	0/255/127	124/252/0	0/255/0	127/255/0	0/250/154	173/255/47	50/205/50	154/205/50	34/139/34	107/142/35	85/107/47	189/183/107	240/230/140	238/232/170	238/221/130	
LIGHTYELLOW	LIGHTGOLDENROD	YELLOW	DARKYELLOW	GOLD	GOLDENROD	DARKGOLDENROD	ROSBROWN	INDIANRED	SADDLEBROWN	SIENNA	PERU	BURLYWOOD	BEIGE	WHEAT	SANDBROWN	
255/255/224	250/250/210	255/255/0	128/128/0	255/215/0	218/165/32	184/134/11	188/143/143	205/92/92	139/69/19	160/82/45	250/133/63	222/184/135	245/245/220	245/222/179	244/164/96	
TAN	CHOCOLATE	FIREBRICK	LIGHTBROWN	BROWN	DARKBROWN	DARKSALMON	SALMON	LIGHTSALMON	LIGHTORANGE	ORANGE	DARKORANGE	CORAL	LIGHTCORAL	TOMATO	ORANGERED	
210/180/140	210/105/30	178/34/34	235/190/85	165/42/42	120/60/30	233/150/122	250/128/114	255/160/122	255/192/128	255/165/0	255/140/0	255/127/80	240/128/128	255/99/71	255/69/0	
RED	LIGHTRED	DARKRED	DEEPPINK	HOTPINK	PINK	LIGHTPINK	PALEVIOLETRED	MAROON	MEDIUMVIOLETRED	VIOLETRED	DARKMAGENTA	MAGENTA	LIGHTMAGENTA	VIOLET	ORCHID	
255/0	255/128/128	139/0/0	255/20/147	255/105/180	255/192/203	255/182/193	219/112/147	176/48/96	199/21/133	208/32/144	139/0/139	255/0/255	255/128/255	238/130/238	218/112/214	
PLUM	MEDIUMORCHID	DARKORCHID	DARKVIOLET	BLUEVIOLET	PURPLE	MEDIUMPURPLE	THISTLE	BLACK	DIMGRAY	DARKGRAY	GRAY	LIGHTGRAY	GAINSBORO	WHITESMOKE	WHITE	
221/160/221	186/85/214	153/50/34	148/0/111	138/43/226	160/32/240	147/112/219	216/191/216	0	105	169	211	211	220	245	255	
SNOW1	SNOW2	SNOW3	SNOW4	SEASHELL1	SEASHELL2	SEASHELL3	SEASHELL4	ANTIQUWHITE1	ANTIQUWHITE2	ANTIQUWHITE3	ANTIQUWHITE4	BISQUE1	BISQUE2	BISQUE3	BISQUE4	
255/250/250	238/233/233	205/201/201	139/137/137	255/245/238	238/229/222	205/197/191	139/134/130	255/239/219	238/223/204	205/192/176	139/131/120	255/228/196	238/213/183	205/183/158	139/125/107	
PEACHPUFF1	PEACHPUFF2	PEACHPUFF3	PEACHPUFF4	NAVAJOWHITE1	NAVAJOWHITE2	NAVAJOWHITE3	NAVAJOWHITE4	LEMONCHIFFON	LEMONCHIFFON2	LEMONCHIFFON3	LEMONCHIFFON4	CORNSILK1	CORNSILK2	CORNSILK3	CORNSILK4	
255/218/185	238/203/173	205/175/149	139/119/101	255/222/173	238/207/161	205/179/139	139/121/94	255/250/205	238/233/191	205/201/165	139/137/112	255/248/220	238/232/205	205/200/177	139/136/120	
IVORY1	IVORY2	IVORY3	IVORY4	HONEYDEW1	HONEYDEW2	HONEYDEW3	HONEYDEW4	LAVENDERBLUSH1	LAVENDERBLUSH2	LAVENDERBLUSH3	LAVENDERBLUSH4	MISTYROSE1	MISTYROSE2	MISTYROSE3	MISTYROSE4	
255/255/240	238/238/224	205/205/193	139/139/131	240/255/240	224/238/224	193/205/193	131/139/131	255/240/245	238/224/229	205/193/197	139/131/134	255/228/225	238/213/210	205/183/181	139/125/123	
AZURE1	AZURE2	AZURE3	AZURE4	SLATEBLUE1	SLATEBLUE2	SLATEBLUE3	SLATEBLUE4	ROYALBLUE1	ROYALBLUE2	ROYALBLUE3	ROYALBLUE4	BLUE1	BLUE2	BLUE3	BLUE4	
240/255/255	224/238/238	193/205/205	131/139/139	131/111/255	122/103/238	105/89/205	71/60/139	72/118/255	67/110/238	58/95/205	39/64/139	0/0/255	0/0/238	0/0/205	0/0/139	
DODGERBLUE1	DODGERBLUE2	DODGERBLUE3	DODGERBLUE4	STEELBLUE1	STEELBLUE2	STEELBLUE3	STEELBLUE4	DEEPSKYBLUE1	DEEPSKYBLUE2	DEEPSKYBLUE3	DEEPSKYBLUE4	SKYBLUE1	SKYBLUE2	SKYBLUE3	SKYBLUE4	
30/144/255	28/134/238	24/116/205	16/78/139	99/184/255	92/172/238	79/148/205	54/100/139	0/191/255	0/178/238	0/154/205	0/104/139	135/206/255	126/192/238	108/166/205	74/112/139	
LIGHTSKYBLUE1	LIGHTSKYBLUE2	LIGHTSKYBLUE3	LIGHTSKYBLUE4	SLATEGRAY1	SLATEGRAY2	SLATEGRAY3	SLATEGRAY4	LIGHTSTEELBLUE1	LIGHTSTEELBLUE2	LIGHTSTEELBLUE3	LIGHTSTEELBLUE4	LIGHTBLUE1	LIGHTBLUE2	LIGHTBLUE3	LIGHTBLUE4	
176/226/255	164/211/238	141/182/205	95/123/139	198/226/255	165/211/238	159/182/205	108/123/139	202/225/255	188/210/238	162/181/205	110/123/139	191/239/255	178/223/238	154/192/205	104/131/139	
LIGHTCYAN1	LIGHTCYAN2	LIGHTCYAN3	LIGHTCYAN4	PALETURQUOISE1	PALETURQUOISE2	PALETURQUOISE3	PALETURQUOISE4	CADETBUE1	CADETBUE2	CADETBUE3	CADETBUE4	TURQUOISE1	TURQUOISE2	TURQUOISE3	TURQUOISE4	
224/255/255	209/238/238	180/205/205	122/139/139	187/255/255	174/238/238	150/205/205	102/139/139	152/245/255	142/229/238	122/197/205	83/134/139	0/245/255	0/229/238	0/197/205	0/134/139	
CYAN1	CYAN2	CYAN3	CYAN4	DARKSLATEGRAY1	DARKSLATEGRAY2	DARKSLATEGRAY3	DARKSLATEGRAY4	AQUAMARINE1	AQUAMARINE2	AQUAMARINE3	AQUAMARINE4	DARKSEAGREEN1	DARKSEAGREEN2	DARKSEAGREEN3	DARKSEAGREEN4	
0/255/255	0/238/238	0/205/205	0/139/139	151/255/255	141/238/238	121/205/205	82/139/139	127/255/212	118/238/198	102/205/170	69/139/116	193/255/193	180/238/180	155/205/155	105/139/105	
SEAGREEN1	SEAGREEN2	SEAGREEN3	SEAGREEN4	PALEGREEN1	PALEGREEN2	PALEGREEN3	PALEGREEN4	SPRINGGREEN1	SPRINGGREEN2	SPRINGGREEN3	SPRINGGREEN4	GREEN1	GREEN2	GREEN3	GREEN4	
84/255/159	78/238/148	67/205/128	46/139/87	154/255/154	144/238/144	124/205/124	84/139/84	0/255/127	0/238/118	0/205/102	0/139/69	0/255/0	0/238/0	0/205/0	0/139/0	
CHARTREUSE1	CHARTREUSE2	CHARTREUSE3	CHARTREUSE4	OLIVEDRAB1	OLIVEDRAB2	OLIVEDRAB3	OLIVEDRAB4	DARKOLIVEGREEN1	DARKOLIVEGREEN2	DARKOLIVEGREEN3	DARKOLIVEGREEN4	KHAKI1	KHAKI2	KHAKI3	KHAKI4	
127/255/0	118/238/0	102/205/0	69/139/87	179/238/58	154/205/50	105/139/34	105/139/34	202/255/112	188/238/104	162/205/90	110/139/61	255/246/143	238/230/133	205/198/115	139/134/78	
LIGHTGOLDENROD1	LIGHTGOLDENROD2	LIGHTGOLDENROD3	LIGHTGOLDENROD4	LIGHTYELLOW1	LIGHTYELLOW2	LIGHTYELLOW3	LIGHTYELLOW4	YELLOW1	YELLOW2	YELLOW3	YELLOW4	GOLD1	GOLD2	GOLD3	GOLD4	
255/236/139	238/220/130	205/190/112	139/129/76	255/255/224	238/238/209	205/205/180	139/139/122	255/255/0	238/238/0	205/205/0	139/139/0	255/215/0	238/201/0	205/173/0	139/117/0	
GOLDENROD1	GOLDENROD2	GOLDENROD3	GOLDENROD4	DARKGOLDENROD1	DARKGOLDENROD2	DARKGOLDENROD3	DARKGOLDENROD4	ROSBROWN1	ROSBROWN2	ROSBROWN3	ROSBROWN4	INDIANRED1	INDIANRED2	INDIANRED3	INDIANRED4	
255/193/37	238/180/34	205/155/29	139/105/20	255/185/15	238/173/14	205/149/12	139/101/8	255/193/193	238/180/180	205/155/155	139/105/105	255/106/106	238/99/99	205/85/85	139/58/58	
SIENNA1	SIENNA2	SIENNA3	SIENNA4	BURLYWOOD1	BURLYWOOD2	BURLYWOOD3	BURLYWOOD4	WHEAT1	WHEAT2	WHEAT3	WHEAT4	TAN1	TAN2	TAN3	TAN4	
255/130/71	238/121/66	205/104/57	139/71/38	255/211/155	238/197/145	205/170/125	139/115/85	255/231/186	238/216/174	205/186/150	139/126/102	255/165/79	238/154/73	205/133/63	139/90/43	
CHOCOLATE1	CHOCOLATE2	CHOCOLATE3	CHOCOLATE4	FIREBRICK1	FIREBRICK2	FIREBRICK3	FIREBRICK4	BROWN1	BROWN2	BROWN3	BROWN4	SALMON1	SALMON2	SALMON3	SALMON4	
255/127/36	238/118/33	205/102/29	139/69/19	255/48/48	238/44/44	205/38/38	139/26/26	255/64/64	238/59/59	205/51/51	139/35/35	255/140/105	238/130/98	205/112/84	139/76/57	
LIGHTSALMON1	LIGHTSALMON2	LIGHTSALMON3	LIGHTSALMON4	ORANGE1	ORANGE2	ORANGE3	ORANGE4	DARKORANGE1	DARKORANGE2	DARKORANGE3	DARKORANGE4	CORAL1	CORAL2	CORAL3	CORAL4	
255/160/122	238/149/114	205/129/98	139/87/66	255/165/0	238/154/0	205/133/0	139/90/0	255/127/0	238/118/0	205/102/0	139/69/0	255/114/86	238/106/80	205/91/69	139/62/47	
TOMATO1	TOMATO2	TOMATO3	TOMATO4	ORANGERED1	ORANGERED2	ORANGERED3	ORANGERED4	RED1	RED2	RED3	RED4	DEEPPINK1	DEEPPINK2	DEEPPINK3	DEEPPINK4	
255/99/71	238/92/66	205/79/57	139/54/38	255/69/0	238/64/0	205/55/0	139/37/0	255/0/0	238/0/0	205/0/0	139/0/0	255/20/147	238/18/137	205/16/118	139/10/80	
HOTPINK1	HOTPINK2	HOTPINK3	HOTPINK4	PINK1	PINK2	PINK3	PINK4	LIGHTPINK1	LIGHTPINK2	LIGHTPINK3	LIGHTPINK4	PALEVIOLETRED1	PALEVIOLETRED2	PALEVIOLETRED3	PALEVIOLETRED4	
255/110/180	238/106/167	205/96/144	139/58/98	255/181/197	238/169/184	205/145/158	139/99/108	255/174/185	238/162/173	205/140/149	139/95/101	255/130/171	238/121/159	205/104/137	139/71/93	
MAROON1	MAROON2	MAROON3	MAROON4	VIOLETRED1	VIOLETRED2	VIOLETRED3	VIOLETRED4	MAGENTA1	MAGENTA2	MAGENTA3	MAGENTA4	ORCHID1	ORCHID2	ORCHID3	ORCHID4	
255/52/179	238/48/167	205/41/144	139/28/98	255/62/150	238/58/140	205/50/120	139/34/82	255/0/255	238/0/238	205/0/205	139/0/139	255/131/250	238/122/233	205/105/201	139/71/137	
PLUM1	PLUM2	PLUM3	PLUM4	MEDIUMORCHID1	MEDIUMORCHID2	MEDIUMORCHID3	MEDIUMORCHID4	DARKORCHID1	DARKORCHID2	DARKORCHID3	DARKORCHID4	PURPLE1	PURPLE2	PURPLE3	PURPLE4	
255/187/255	238/174/238	205/150/205	139/102/139	224/102/255	209/95/238	180/82/205	122/55/139	191/62/255	178/58/238	154/50/205	104/34/139	155/48/255	145/44/238	125/38/205	85/26/139	
MEDIUMPURPLE1	MEDIUMPURPLE2	MEDIUMPURPLE3	MEDIUMPURPLE4	THISTLE1	THISTLE2	THISTLE3	THISTLE4	GRAY0	GRAY1	GRAY2	GRAY3	GRAY4	GRAY5	GRAY6	GRAY7	
171/130/255	159/121/238	137/104/205	93/71/139	255/225/255	238/210/238	205/181/205	139/123/139	0	3	5	8	10	13	15	18	
GRAY0	GRAY1	GRAY10	GRAY11													