

Hydroxylase alpha subunit									
	1	2	3	4	5	6	7	8	9
1 Mtri_Halphi	526	96%	81%	34%	17%	17%	17%	18%	17%
	0	3%	18%	61%	74%	73%	74%	73%	74%
	0	0%	0%	4%	7%	9%	7%	8%	8%
2 MstM_Halphi	506	52%	82%	34%	17%	16%	17%	18%	17%
	20	0	17%	61%	75%	74%	74%	73%	74%
	0	0	0%	4%	7%	9%	7%	8%	8%
3 Mcap_Halphi	428	434	527	34%	17%	16%	17%	17%	17%
	98	92	0	61%	74%	73%	74%	74%	73%
	1	1	0	4%	7%	9%	7%	8%	8%
4 AMO_AmoC	177	178	176	501	18%	18%	16%	17%	16%
	316	315	317	0	71%	68%	72%	71%	72%
	21	21	22	0	10%	12%	10%	11%	11%
5 T2M_TbmD	94	91	93	95	513	63%	21%	23%	24%
	399	402	401	369	0	34%	73%	71%	69%
	42	42	42	55	0	2%	5%	5%	6%
6 PH_F3	91	89	91	98	325	517	20%	23%	24%
	394	396	395	358	178	0	73%	70%	69%
	50	50	50	63	12	0	5%	5%	6%
7 T3M_TbuA1	95	94	96	85	109	107	501	66%	43%
	397	398	397	377	379	377	0	32%	55%
	42	42	42	57	29	29	0	0%	0%
8 T4M_TmoA	98	97	96	89	119	120	336	500	44%
	393	394	396	372	368	363	163	0	54%
	43	43	43	58	30	30	3	0	1%
9 AMO_XamoA	95	93	96	84	127	125	219	224	497
	395	397	394	376	357	355	278	271	0
	43	43	44	58	31	31	3	6	0

Coupling Protein								
	1	2	3	4	5	6	7	8
1 Mtri_B	138	96%	65%	26%	22%	22%	19%	18%
	0	3%	32%	67%	71%	68%	72%	75%
	0	0%	1%	5%	6%	8%	8%	6%
2 MspM_B	133	138	65%	26%	20%	21%	18%	17%
	5	0	32%	67%	73%	69%	73%	75%
	0	0	1%	5%	6%	8%	8%	6%
3 Mcap_B	92	92	141	22%	19%	18%	20%	20%
	46	46	0	73%	75%	73%	72%	74%
	2	2	0	4%	5%	7%	7%	5%
4 T3M_TbuV	29	29	24	104	55%	33%	25%	30%
	74	74	80	0	43%	63%	70%	66%
	6	6	5	0	0%	3%	3%	2%
5 T4M_TmoD	24	22	21	58	103	35%	27%	18%
	78	80	82	45	0	60%	68%	78%
	7	7	6	1	0	3%	3%	3%
6 T2M_TbmC	22	21	18	31	33	89	48%	23%
	66	67	71	58	56	0	51%	75%
	8	8	7	3	3	0	0%	1%
7 PH_P2	19	18	20	24	26	43	90	21%
	70	71	70	66	64	46	0	76%
	8	8	7	3	3	0	0	1%
8 AMO_AmoB	23	22	25	32	19	21	20	117
	93	94	92	70	82	68	70	0
	8	8	7	3	4	1	1	0

Hydroxylase beta subunit								
	1	2	3	4	5	6	7	8
1 Mtri_Hbeta	395	94%	58%	25%	15%	13%	15%	17%
	0	5%	39%	65%	78%	81%	79%	75%
	0	0%	1%	9%	5%	5%	4%	7%
2 MspM_Hbeta	372	395	60%	25%	16%	13%	15%	17%
	23	0	38%	65%	77%	80%	79%	75%
	0	0	1%	9%	5%	5%	4%	7%
3 Mcap_Hbeta	232	237	389	25%	15%	11%	12%	13%
	157	152	0	66%	78%	81%	81%	78%
	6	6	0	8%	6%	6%	5%	7%
4 AMO_AmoA	95	97	94	343	18%	19%	14%	16%
	248	246	249	0	72%	71%	75%	70%
	34	34	32	0	9%	8%	10%	12%
5 T3M_TbuA2	55	57	53	64	329	56%	18%	19%
	170	268	270	245	0	42%	75%	74%
	19	19	21	31	0	0%	5%	5%
6 T4M_TmoE	45	46	41	65	186	327	18%	18%
	278	277	280	243	140	0	75%	76%
	20	20	22	30	2	0	5%	5%
7 T2M_TbmB	54	55	45	49	63	62	336	42%
	278	277	285	262	258	257	0	53%
	17	17	19	37	19	20	0	3%
8 PH_P1	60	63	47	59	67	61	144	331
	267	264	278	246	250	255	182	0
	25	25	27	44	19	18	13	0

Reductase								
	1	2	3	4	5	6	7	8
1 Mtri_R	340	71%	41%	20%	18%	22%	22%	21%
	0	23%	51%	67%	68%	66%	65%	67%
	0	5%	6%	11%	13%	10%	11%	10%
2 MspM_R	250	343	50%	24%	21%	26%	25%	26%
	81	0	47%	66%	67%	64%	65%	64%
	21	0	2%	9%	10%	8%	8%	8%
3 Mcap_R	148	174	348	22%	25%	23%	25%	28%
	182	166	0	69%	64%	69%	65%	63%
	24	7	0	8%	9%	7%	8%	7%
4 T3M_TbuC	74	87	80	334	37%	29%	28%	30%
	242	234	243	0	59%	68%	68%	65%
	40	33	29	0	2%	2%	3%	4%
5 T4M_TmoF	64	77	89	125	326	27%	28%	29%
	243	236	226	199	0	67%	66%	63%
	47	38	34	9	0	4%	5%	6%
6 T2M_TbmF	80	96	83	99	94	355	55%	31%
	241	231	248	232	231	0	42%	64%
	39	30	26	10	15	0	1%	3%
7 PH_P2	82	92	92	96	98	198	353	32%
	236	232	235	232	224	153	0	63%
	41	32	30	12	17	6	0	4%
8 AMO_AmoD	77	94	101	103	102	110	114	342
	241	230	226	222	218	228	221	0
	39	30	28	16	21	13	15	0

Figure 1-9