Table S2. Manually curated copy-number matrix of 11 stress-associated gene families involved in antioxidant defense, osmoprotection, and carotenoid biosynthesis across 19 chlorophyte genome assemblies

Species	SOD	CAT	PRX	TRX	GPD1	TPS/OtsA	OtsB	crtB	crtP	crtQ	crtL
Chlamydomonas reinhardtii CC-4532 v6.1	5	1	3	18	5	1	4	3	2	1	2
Chlorella sorokiniana UTEX 1230	4	1	5	18	3	1	3	3	1	0	3
Dunaliella salina CCAP1918	4	1	3	16	4	1	4	4	1	1	3
Desmodesmus armatus SE107 v1.0	4	2	4	18	2	0	3	3	2	1	2
Tetradesmus obliquus UTEX 72 v1.1	5	1	5	18	4	1	3	3	2	1	2
Monoraphidium neglectum SAG 48.87	4	1	2	16	2	0	3	2	1	0	2
Haematococcus lacustris var. Liv1-3	6	1	3	23	3	1	4	3	1	2	2
Coccomyxa subellipsoidea C-169 v3.0	6	4	5	17	2	1	3	1	1	1	2
Micractinium conductrix SAG 241.80	4	1	4	18	3	1	3	3	1	1	3
Flechtneria rotunda SEV3VF49	4	2	4	14	3	0	6	4	2	1	2
Enallax costatus CCAP 276/31	4	3	6	20	4	1	3	3	2	1	2
Scenedesmus obliquus SAG 2326	5	1	5	16	4	1	3	3	2	1	2
Scenedesmus dimorphus UTEX 1237	5	1	5	17	4	1	3	3	2	1	2
Scenedesmus sp. WC-1	5	1	4	17	4	1	3	3	2	1	3
Scenedesmus obliquus UTEX 3031	6	1	5	22	4	1	3	3	2	2	2
Tetradesmus deserticola SNI-2	8	1	4	14	4	1	3	3	2	1	2
Haematococcus lacustris NIES-144	4	2	4	12	0	0	1	3	1	0	1
Coccomyxa pringsheimii SAG 216-7	6	3	5	15	3	1	3	3	1	1	2
Scenedesmus obliquus UTEX 393 v2.0	5	1	5	19	5	1	3	3	2	1	2