$Fi_{22}.2$

$2^{10} : M_{22}$ $\leq 2^{10} : M_{22}.2$	284310	1a$^{\pm}$ + 78a$^{\pm}$ + 429a$^{\pm}$ + 1430a$^{\pm}$ + 3080a$^{\pm}$ + 30030a$^{\pm}$ + 32032a$^{\pm}$ + 75075a$^{\pm}$	16

Character Numbers: [1, 2, 3, 4, 5, 6, 9, 10, 13, 14, 19, 20, 21, 22, 33, 34]

	S_1	S_2	S_3	S_4	S_5	S_6	S_7	S_8	S_9	S_{10}	S_{11}	S_{12}	S_{13}	S_{14}	S_{15}	S_{16}
χ_1	1	1	154	154	1024	1024	3696	3696	4928	4928	11264	11264	42240	42240	78848	78848
χ_2	1	−1	−154	154	1024	−1024	3696	−3696	−4928	4928	−11264	11264	42240	−42240	−78848	78848
χ_3	1	1	−77	−77	−320	−320	924	924	1232	1232	−1408	−1408	−5280	−5280	4928	4928
χ_4	1	−1	77	−77	−320	320	924	−924	−1232	1232	1408	−1408	−5280	5280	−4928	4928
χ_5	1	1	49	49	−176	−176	546	546	−532	−532	1184	1184	−960	−960	−112	−112
χ_6	1	−1	−49	49	−176	176	546	−546	532	−532	−1184	1184	−960	960	112	−112
χ_7	1	1	−35	−35	160	160	294	294	−364	−364	−400	−400	120	120	224	224
χ_8	1	−1	35	−35	160	−160	294	−294	364	−364	400	−400	120	−120	−224	224
χ_9	1	1	37	37	88	88	186	186	248	248	32	32	120	120	−712	−712
χ_{10}	1	−1	−37	37	88	−88	186	−186	−248	248	−32	32	120	−120	712	−712
χ_{11}	1	1	13	13	−32	−32	6	6	−28	−28	−112	−112	120	120	32	32
χ_{12}	1	−1	−13	13	−32	32	6	−6	28	−28	112	−112	120	−120	−32	32
χ_{13}	1	1	−17	−17	−20	−20	24	24	32	32	32	32	120	120	−172	−172
χ_{14}	1	−1	17	−17	−20	20	24	−24	−32	32	−32	32	120	−120	172	−172
χ_{15}	1	1	1	1	16	16	−30	−30	−4	−4	32	32	−96	−96	80	80
χ_{16}	1	−1	−1	1	16	−16	−30	30	4	−4	−32	32	−96	96	−80	80

Ramanujan Graphs: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 6, 8, 9, 11, 14, 15], [2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 3, 8, 9, 11, 14, 15], [2, 3, 8, 14, 15], [2, 3, 9, 11, 14, 15], [2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 6, 8, 9, 11, 14, 15], [2, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [2, 8, 9, 11, 14, 15], [2, 8, 14, 15], [2, 9, 11, 14, 15], [3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 6, 8, 9, 11, 14, 15], [3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [3, 8, 9, 11, 14, 15], [3, 8, 14, 15], [3, 9, 11, 14, 15], [4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [4, 5, 7, 10, 12, 13, 16], [4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [4, 7, 10, 12, 13, 16], [4, 7, 13, 16], [4, 10, 12, 13, 16], [5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16], [5, 7, 10, 12, 13, 16], [6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16] , [6, 8, 9, 11, 14, 15], [7, 8, 9, 10, 11, 12, 13, 14, 15, 16] , [7, 10, 12, 13, 16], [7, 13, 16], [8, 9, 11, 14, 15], [8, 14, 15], [9, 11, 14, 15], [10, 12, 13, 16]