The group G is isomorphic to the alternating group A8. Ordinary character table of $G \cong A8$:

	1 <i>a</i>	2a	2b	3a	3b	4a	4b	5a	6a	6b	7a	7b	15a	15b
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	7	-1	3	4	1	-1	1	2	0	-1	0	0	-1	-1
χ_3	14	6	2	-1	2	2	0	-1	-1	0	0	0	-1	-1
χ_4	20	4	4	5	-1	0	0	0	1	1	-1	-1	0	0
χ_5	21	-3	1	6	0	1	-1	1	-2	0	0	0	1	1
χ_6	21	-3	1	-3	0	1	-1	1	1	0	0	0	$-E(15)^7 - E(15)^{11} - E(15)^{13} - E(15)^{14}$	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$
χ_7	21	-3	1	-3	0	1	-1	1	1	0	0	0	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$	$-E(15)^{7} - E(15)^{11} - E(15)^{13} - E(15)^{14}$
χ_8	28	-4	4	1	1	0	0	-2	1	-1	0	0	1	1
χ_9	35	3	-5	5	2	-1	-1	0	1	0	0	0	0	0
χ_{10}	45	-3	-3	0	0	1	1	0	0	0	$E(7) + E(7)^2 + E(7)^4$	$E(7)^3 + E(7)^5 + E(7)^6$	0	0
χ_{11}	45	-3	-3	0	0	1	1	0	0	0	$E(7)^3 + E(7)^5 + E(7)^6$	$E(7) + E(7)^2 + E(7)^4$	0	0
χ_{12}	56	8	0	-4	-1	0	0	1	0	-1	0	0	1	1
χ_{13}	64	0	0	4	-2	0	0	-1	0	0	1	1	-1	-1
χ_{14}	70	-2	2	-5	1	-2	0	0	-1	1	0	0	0	0

Trivial source character table of $G \cong A8$ at p = 7:

Normalisers N_i										N_1				N_2	
p-subgroups of G up to conjugacy in G										P_1				P_2	
Representatives $n_j \in N_i$				3a	6a	3b	4b	4a	5a	15a	15b	6b	1a	3b	3a
$\boxed{0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}}$	7	3	-1	4	0	1	1	-1	2	-1	-1	-1	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	21	1	-3	6	-2	0	-1	1	1	1	1	0	0	0	0
$\left 1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \right $	21	5	5	6	2	0	1	1	1	1	1	2	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	84	4	4	9	1	-3	0	0	-1	-1	-1	1	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	35	-5	3	5	1	2	-1	-1	0	0	0	0	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	28	4	-4	1	1	1	0	0	-2	1	1	-1	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} \ \right $	70	2	-2	-5	-1	1	0	-2	0	0	0	1	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	21	1	-3	-3	1	0	-1	1	1	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$	$-E(15)^7 - E(15)^{11} - E(15)^{13} - E(15)^{14}$	0	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	21	1	-3	-3	1	0	-1	1	1	$-E(15)^7 - E(15)^{11} - E(15)^{13} - E(15)^{14}$	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$	0	0	0	0
$ \left 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \right $	56	0	8	-4	0	-1	0	0	1	1	1	-1	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	14	2	6	-1	-1	2	0	2	-1	-1	-1	0	0	0	0
$ \left \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} \ \right $	154	-6	-6	4	0	-2	2	2	-1	-1	-1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	64	0	0	4	0	-2	0	0	-1	-1	-1	0	1	E(3)	$E(3)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$				4	0	-2	0	0	-1	-1	-1	0	1	$E(3)^{2}$	E(3)
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

 $P_1 = Group([()]) \cong 1$ $P_2 = Group([(1, 6, 7, 3, 2, 8, 5)]) \cong C7$

 $N_1 = AlternatingGroup([1..8]) \cong A8$ $N_2 = Group([(1,6,7,3,2,8,5),(2,7,6)(3,8,5)]) \cong C7 : C3$