The group G is isomorphic to the group labelled by [22, 1] in the Small Groups library.

Ordinary character table of $G \cong D22$:

	$1a$	$11a$	$11b$	$11c$	$11d$	$11e$	$2a$
χ_1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	-1
χ_3	2	$E(11)+E(11)^{10}$	$E(11)^2+E(11)^9$	$E(11)^3+E(11)^8$	$E(11)^4+E(11)^7$	$E(11)^5+E(11)^6$	0
χ_4	2	$E(11)^5+E(11)^6$	$E(11)+E(11)^{10}$	$E(11)^4+E(11)^7$	$E(11)^2+E(11)^9$	$E(11)^3+E(11)^8$	0
χ_5	2	$E(11)^3+E(11)^8$	$E(11)^5+E(11)^6$	$E(11)^2+E(11)^9$	$E(11)+E(11)^{10}$	$E(11)^4+E(11)^7$	0
χ_6	2	$E(11)^4+E(11)^7$	$E(11)^3+E(11)^8$	$E(11)+E(11)^{10}$	$E(11)^5+E(11)^6$	$E(11)^2+E(11)^9$	0
χ_7	2	$E(11)^2+E(11)^9$	$E(11)^4+E(11)^7$	$E(11)^5+E(11)^6$	$E(11)^3+E(11)^8$	$E(11)+E(11)^{10}$	0

Trivial source character table of $G \cong D22$ at $p = 2$:

Normalisers N_i	N_1						N_2
p-subgroups of G up to conjugacy in G	P_1						P_2
Representatives $n_j \in N_i$	$1a$	$11a$	$11b$	$11c$	$11d$	$11e$	$1a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	2	2	2	2	2	2	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	2	$E(11)^3+E(11)^8$	$E(11)^5+E(11)^6$	$E(11)^2+E(11)^9$	$E(11)+E(11)^{10}$	$E(11)^4+E(11)^7$	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7$	2	$E(11)^2+E(11)^9$	$E(11)^4+E(11)^7$	$E(11)^5+E(11)^6$	$E(11)^3+E(11)^8$	$E(11)+E(11)^{10}$	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	2	$E(11)^5+E(11)^6$	$E(11)+E(11)^{10}$	$E(11)^4+E(11)^7$	$E(11)^2+E(11)^9$	$E(11)^3+E(11)^8$	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$	2	$E(11)^4+E(11)^7$	$E(11)^3+E(11)^8$	$E(11)+E(11)^{10}$	$E(11)^5+E(11)^6$	$E(11)^2+E(11)^9$	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	2	$E(11)+E(11)^{10}$	$E(11)^2+E(11)^9$	$E(11)^3+E(11)^8$	$E(11)^4+E(11)^7$	$E(11)^5+E(11)^6$	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	1	1	1	1	1	1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,2)(3,22)(4,21)(5,20)(6,19)(7,18)(8,17)(9,16)(10,15)(11,14)(12,13)]) \cong C2$

$N_1 = Group([(1,2)(3,22)(4,21)(5,20)(6,19)(7,18)(8,17)(9,16)(10,15)(11,14)(12,13), (1,3,5,7,9,11,13,15,17,19,21)(2,4,6,8,10,12,14,16,18,20,22)]) \cong D22$
$N_2 = Group([(1,2)(3,22)(4,21)(5,20)(6,19)(7,18)(8,17)(9,16)(10,15)(11,14)(12,13)]) \cong C2$