

The group G is isomorphic to the group labelled by [4, 1] in the Small Groups library.
 Ordinary character table of $G \cong C4$:

	$1a$	$4a$	$2a$	$4b$
χ_1	1	1	1	1
χ_2	1	-1	1	-1
χ_3	1	$E(4)$	-1	$-E(4)$
χ_4	1	$-E(4)$	-1	$E(4)$

Trivial source character table of $G \cong C4$ at $p = 2$:

Normalisers N_i	N_1	N_2	N_3
p -subgroups of G up to conjugacy in G	P_1	P_2	P_3
Representatives $n_j \in N_i$	$1a$	$1a$	$1a$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4$	4	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4$	2	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4$	1	1	1

$$P_1 = \text{Group}([()]) \cong 1$$

$$P_2 = \text{Group}([(1, 3)(2, 4)]) \cong C2$$

$$P_3 = \text{Group}([(1, 2, 3, 4), (1, 3)(2, 4)]) \cong C4$$

$$N_1 = \text{Group}([(1, 2, 3, 4)]) \cong C4$$

$$N_2 = \text{Group}([(1, 2, 3, 4)]) \cong C4$$

$$N_3 = \text{Group}([(1, 2, 3, 4), (1, 3)(2, 4)]) \cong C4$$