The group G is isomorphic to the group labelled by [720, 764] in the Small Groups library.
Ordinary character table of $G \cong$ A6 : C2:

	$1a$	$2a$	$2b$	$3a$	$4a$	$5a$	$5b$	$8a$	$8b$	$10a$	$10b$
χ_1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	1	1	1	1	1	-1	-1	-1	-1
χ_3	8	2	0	-1	0	$-E(5)^2 - E(5)^3$	$-E(5) - E(5)^4$	0	0	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$
χ_4	8	-2	0	-1	0	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$	0	0	$-E(5)^2 - E(5)^3$	$-E(5) - E(5)^4$
χ_5	8	2	0	-1	0	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$	0	0	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$
χ_6	8	-2	0	-1	0	$-E(5)^2 - E(5)^3$	$-E(5) - E(5)^4$	0	0	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$
χ_7	9	1	1	0	1	-1	-1	-1	-1	1	1
χ_8	9	-1	1	0	1	-1	-1	1	1	-1	-1
χ_9	10	0	2	1	-2	0	0	0	0	0	0
χ_{10}	10	0	-2	1	0	0	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	0	0
χ_{11}	10	0	-2	1	0	0	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	0	0

Trivial source character table of G $\cong$ A6 : C2 at p = 5

Normalisers N_i	N_1							N_2			
$p-$ subgroups of G up to conjugacy in G	P_1							P_2			
Representatives $n_j \in N_i$	$1a$	$2a$	$2b$	$3a$	$4a$	$8a$	$8b$	$1a$	$2b$	$2a$	$2a$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	10	0	2	1	2	2	2	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	10	0	2	1	2	-2	-2	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	25	-5	1	-2	1	1	1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	25	5	1	-2	1	-1	-1	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	10	0	2	1	-2	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11}$	10	0	-2	1	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11}$	10	0	-2	1	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	16	4	0	-2	0	0	0	1	-1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	16	-4	0	-2	0	0	0	1	-1	-1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11}$	1	-1	1	1	1	-1	-1	1	1	-1	-1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,8,6,4,5)(2,10,9,7,3)]) \cong$ C5

$N_1 = Group([(2,3,4)(5,7,8)(6,9,10),(1,2)(3,5)(4,6)(7,8)(9,10)]) \cong$ A6 : C2
$N_2 = Group([(2,10)(3,9)(4,6)(5,8),(1,8,6,4,5)(2,10,9,7,3),(1,10)(2,8)(3,6)(4,7)(5,9)]) \cong$ D20