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	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	$-E(5)-E(5)\hat{\ }4$	0	0	$E(5)+E(5)\hat{\ }4$	$E(5)\hat{\ }2+E(5)\hat{\ }3$
χ_4	8	-2	0	-1	0	$-E(5)-E(5)\hat{\ }4$	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	0	0	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	$-E(5)-E(5)\hat{\ }4$
χ_5	8	2	0	-1	0	$-E(5)-E(5)\hat{\ }4$	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	0	0	$E(5)\hat{\ }2+E(5)\hat{\ }3$	$E(5)+E(5)\hat{\ }4$
χ_6	8	-2	0	-1	0	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	$-E(5)-E(5)\hat{\ }4$	0	0	$-E(5)-E(5)\hat{\ }4$	$-E(5)\hat{\ }2-E(5)\hat{\ }3$
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	$-E(8)+E(8)\hat{\ }3$	$E(8)-E(8)\hat{\ }3$	0	0
χ_{11}	10	0	-2	1	0	0	0	$E(8)-E(8)\hat{\ }3$	$-E(8)+E(8)\hat{\ }3$	0	0

Trivial source character table of G $\cong$ A6 : C2 at p = 2

Normalisers N_i					N_1			N_2			N_3	N_4		N_5	N_6	N_7	N_8	N_9	N_{10}
$p-$subgroups of G up to conjugacy in G					P_1			P_2			P_3	P_4		P_5	P_6	P_7	P_8	P_9	P_{10}
Representatives $n_j \in N_i$	$1a$	$3a$	$5a$	$5b$				$1a$	$5b$	$5a$	$1a$	$1a$	$3a$	$1a$	$1a$	$1a$	$1a$	$1a$	$1a$
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+2\cdot\chi_9+2\cdot\chi_{10}+2\cdot\chi_{11}$	80	8	0	0				0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}$	48	3	-2	-2				0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	16	-2	$-2*E(5)-2*E(5)\hat{\ }4$	$-2*E(5)\hat{\ }2-2*E(5)\hat{\ }3$				0	0	0	0	0	0	1	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	16	-2	$-2*E(5)\hat{\ }2-2*E(5)\hat{\ }3$	$-2*E(5)-2*E(5)\hat{\ }4$				0	0	0	0	0	0	1	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+1\cdot\chi_{10}+1\cdot\chi_{11}$	40	4	0	0				2	2	2	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	8	-1	$-E(5)\hat{\ }2-E(5)\hat{\ }3$	$-E(5)-E(5)\hat{\ }4$				2	$E(5)+E(5)\hat{\ }4$	$E(5)\hat{\ }2+E(5)\hat{\ }3$	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	8	-1	$-E(5)-E(5)\hat{\ }4$	$-E(5)\hat{\ }2-E(5)\hat{\ }3$				2	$E(5)\hat{\ }2+E(5)\hat{\ }3$	$E(5)+E(5)\hat{\ }4$	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+2\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	40	4	0	0				0	0	0	8	0	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	12	3	2	2				0	0	0	4	2	2	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	28	1	-2	-2				0	0	0	4	2	-1	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	20	2	0	0				0	0	0	4	0	0	4	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	20	2	0	0				2	2	2	4	0	0	0	2	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	10	1	0	0				2	2	2	2	0	0	2	2	2	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	10	1	0	0				0	0	0	2	0	0	2	0	0	2	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}$	2	2	2	2				0	0	0	2	2	2	2	0	0	0	2	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	1	1	1	1	1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,3)(2,7)(4,9)(5,6)(8,10)]) \cong C2$
$P_3 = Group([(2,4)(5,10)(6,8)(7,9)]) \cong C2$
$P_4 = Group([(1,3)(5,7)(6,8)(9,10),(2,4)(5,10)(6,8)(7,9)]) \cong C2 \times C2$
$P_5 = Group([(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9)]) \cong C4$
$P_6 = Group([(1,3)(2,7)(4,9)(5,6)(8,10),(2,4)(5,10)(6,8)(7,9)]) \cong C2 \times C2$
$P_7 = Group([(1,3)(2,7)(4,9)(5,6)(8,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9)]) \cong D8$
$P_8 = Group([(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9),(2,5,8,9,4,10,6,7)]) \cong C8$
$P_9 = Group([(1,3)(5,7)(6,8)(9,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9)]) \cong D8$
$P_{10} = Group([(1,3)(5,7)(6,8)(9,10),(2,4)(5,10)(6,8)(7,9),(2,5,8,9,4,10,6,7)]) \cong D16$

$N_1 = Group([(2,3,4)(5,7,8)(6,9,10),(1,2)(3,5)(4,6)(7,8)(9,10)]) \cong A6 : C2$
$N_2 = Group([(1,3)(2,7)(4,9)(5,6)(8,10),(2,4)(5,10)(6,8)(7,9),(1,2)(3,7)(4,10)(8,9)]) \cong D20$
$N_3 = Group([(1,3)(5,7)(6,8)(9,10),(2,4)(5,10)(6,8)(7,9),(2,10,8,7,4,5,6,9)]) \cong D16$
$N_4 = Group([(1,3)(5,7)(6,8)(9,10),(1,3)(2,8)(4,6)(7,9),(2,4)(5,10)(6,8)(7,9),(1,8)(2,4)(3,6)(9,10)]) \cong S4$
$N_5 = Group([(1,3)(5,7)(6,8)(9,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9),(2,10,8,7,4,5,6,9)]) \cong D16$
$N_6 = Group([(1,3)(2,7)(4,9)(5,6)(8,10),(2,4)(5,10)(6,8)(7,9),(1,3)(2,10)(4,5)(6,7)(8,9)]) \cong D8$
$N_7 = Group([(1,3)(5,7)(6,8)(9,10),(1,3)(2,7)(4,9)(5,6)(8,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9)]) \cong D16$
$N_8 = Group([(1,3)(5,7)(6,8)(9,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9),(2,5,8,9,4,10,6,7)]) \cong D16$
$N_9 = Group([(1,3)(5,7)(6,8)(9,10),(2,6,4,8)(5,7,10,9),(2,4)(5,10)(6,8)(7,9),(2,10,8,7,4,5,6,9)]) \cong D16$
$N_10 = Group([(1,3)(5,7)(6,8)(9,10),(2,4)(5,10)(6,8)(7,9),(2,5,8,9,4,10,6,7)]) \cong D16$