The group G is isomorphic to the group labelled by [32, 15] in the Small Groups library.
Ordinary character table of $G \cong C4$. D8 = C4 . (C4 x C2):

	1a	8a	8b	4a	4b	2a	8c	8d	8e	8f	2b	4c	8g	8h
χ_1	1	1	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	1	1	-1
χ_3	1	-1	1	1	1	1	-1	-1	1	1	1	1	-1	1
χ_4	1	1	-1	1	1	1	-1	1	-1	-1	1	1	-1	-1
χ_5	1	$-E(4)$	-1	1	-1	1	$E(4)$	$E(4)$	1	-1	-1	-1	$-E(4)$	1
χ_6	1	$E(4)$	-1	1	-1	1	$-E(4)$	$-E(4)$	1	-1	-1	-1	$E(4)$	1
χ_7	1	$-E(4)$	1	1	-1	1	$-E(4)$	$E(4)$	-1	1	-1	-1	$E(4)$	-1
χ_8	1	$E(4)$	1	1	-1	1	$E(4)$	$-E(4)$	-1	1	-1	-1	$-E(4)$	-1
χ_9	2	0	0	-2	2	2	0	0	0	0	2	-2	0	0
χ_{10}	2	0	0	-2	2	2	0	0	0	0	-2	2	0	0
χ_{11}	2	0	$-E(8)-E(8)^3$	0	$-2*E(4)$	-2	0	0	$-E(8)+E(8)^3$	$E(8)+E(8)^3$	0	$2*E(4)$	0	$E(8)-E(8)^3$
χ_{12}	2	0	$-E(8)-E(8)^3$	0	$2*E(4)$	-2	0	0	$E(8)-E(8)^3$	$E(8)+E(8)^3$	0	$-2*E(4)$	0	$-E(8)+E(8)^3$
χ_{13}	2	0	$E(8)+E(8)^3$	0	$-2*E(4)$	-2	0	0	$-E(8)+E(8)^3$	$-E(8)-E(8)^3$	0	$2*E(4)$	0	$E(8)+E(8)^3$
χ_{14}	2	0	$E(8)+E(8)^3$	0	$2*E(4)$	-2	0	0	$-E(8)+E(8)^3$	$-E(8)-E(8)^3$	0	$-2*E(4)$	0	$E(8)-E(8)^3$

Trivial source character table of $G \cong C4$. D8 = C4 . (C4 x 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}	N_{11}	N_{12}	N_{13}	N_{14}	N_{15}
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}	P_{11}	P_{12}	P_{13}	P_{14}	P_{15}
Representatives $n_j \in N_i$	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 2 \cdot \chi_{11} + 2 \cdot \chi_{12} + 2 \cdot \chi_{13} + 2 \cdot \chi_{14}$	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 2 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 2 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	16	0	8	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 2 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8	8	0	8	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8	8	0	0	8	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 2 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	8	8	8	0	0	8	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4	4	0	0	4	0	0	4	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4	4	0	4	0	0	0	0	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	4	4	0	0	4	0	0	0	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	2	2	2	2	2	2	2	2	0	0	2	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	2	2	2	2	2	2	0	0	2	0	0	2	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	2	2	2	2	2	2	2	2	0	0	2	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C2$
$P_3 = Group([(1,14)(2,20)(3,23)(4,16)(5,15)(6,26)(7,27)(8,22)(9,21)(10,30)(11,25)(12,24)(13,31)(17,29)(18,28)(19,32)]) \cong C2$
$P_4 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32)]) \cong C4$
$P_5 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C4$
$P_6 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,14)(2,20)(3,23)(4,16)(5,15)(6,26)(7,27)(8,22)(9,21)(10,30)(11,25)(12,24)(13,31)(17,29)(18,28)(19,32)]) \cong C2 \times C2$
$P_7 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32)]) \cong C4 \times C2$
$P_8 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C8$
$P_9 = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,12,15,31,6,25,4,23)(2,18,21,32,10,29,8,27)(3,14,24,5,13,26,11,16)(7,20,28,9,19,30,17,22), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C8$
$P_{10} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,24,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32)]) \cong C8 \times C2$
$P_{11} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,17,16,32,6,28,5,27)(2,23,22,11,10,31,9,24)(3,21,25,20,13,8,12,30)(4,7,26,29,15,19,14,18), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32)]) \cong C8$
$P_{12} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32)]) \cong C8 \times C2$
$P_{13} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C8 : C2$
$P_{14} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,17,16,32,6,28,5,27)(2,23,22,11,10,31,9,24)(3,21,25,20,13,8,12,30)(4,7,26,29,15,19,14,18)]) \cong C8 : C2$
$P_{15} = Group([(1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C4 : D8 = C4 : (C4 \times C2)$

$N_1 = Group([(1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_2 = Group([(1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_3 = Group([(1,14)(2,20)(3,23)(4,16)(5,15)(6,26)(7,27)(8,22)(9,21)(10,30)(11,25)(12,24)(13,31)(17,29)(18,28)(19,32), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C8 \times C2$
$N_4 = Group([(1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_5 = Group([(1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_6 = Group([(1,14)(2,20)(3,23)(4,16)(5,15)(6,26)(7,27)(8,22)(9,21)(10,30)(11,25)(12,24)(13,31)(17,29)(18,28)(19,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_7 = Group([(1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_8 = Group([(1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_9 = Group([(1,12,15,31,6,25,4,23)(2,18,21,32,10,29,8,27)(3,14,24,5,13,26,11,16)(7,20,28,9,19,30,17,22), (1,15,6,4)(2,21,10,8)(3,24,13,11)(5,26,16,14)(7,28,19,17)(9,30,22,20)(12,31,25,23)(18,32,29,27), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_{10} = Group([(1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C8 : C2$
$N_{11} = Group([(1,17,16,32,6,28,5,27)(2,23,22,11,10,31,9,24)(3,21,25,20,13,8,12,30)(4,7,26,29,15,19,14,18), (1,16,6,5)(2,22,10,9)(3,25,13,12)(4,26,15,14)(7,28,19,18)(8,30,21,20)(11,31,24,23)(17,32,28,27), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32)]) \cong C8 : C2$
$N_{12} = Group([(1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_{13} = Group([(1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_{14} = Group([(1,17,16,32,6,28,5,27)(2,23,22,11,10,31,9,24)(3,21,25,20,13,8,12,30)(4,7,26,29,15,19,14,18), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32), (1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11)]) \cong C4 . D8 = C4 . (C4 \times C2)$
$N_{15} = Group([(1,2,5,9,6,10,16,22)(3,17,12,27,13,28,25,32)(4,21,14,30,15,8,26,20)(7,23,18,24,19,31,29,11), (1,3,4,11,6,13,15,24)(2,7,8,17,10,19,21,28)(5,12,14,23,16,25,26,31)(9,18,20,27,22,29,30,32), (1,5,6,16)(2,9,10,22)(3,12,13,25)(4,14,15,26)(7,18,19,29)(8,20,21,30)(11,23,24,31)(17,27,28,32), (1,4,6,15)(2,8,10,21)(3,11,13,24)(5,14,16,26)(7,17,19,28)(9,20,22,30)(12,23,25,31)(18,27,29,32), (1,6)(2,10)(3,13)(4,15)(5,16)(7,19)(8,21)(9,22)(11,24)(12,25)(14,26)(17,28)(18,29)(20,30)(23,31)(27,32)]) \cong C4 . D8 = C4 . (C4 \times C2)$