The group G is isomorphic to the group labelled by [54, 1] in the Small Groups library.
Ordinary character table of $G \cong$ D54:

	1a	2a	27a	9a	3a	27b	27c	9b	27d	27e	27f	27g	9c	27h	27i
χ_1	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	1
χ_3	2	0	−1	2	−1	2	−1	2	−1	−1	−1	−1	2	−1	−1
χ_4	2	0	$-E(9)^2-E(9)^4+E(9)^5-E(9)^7$	−1	2	$E(9)^2+E(9)^7$	$-E(9)^2-E(9)^4-E(9)^5+E(9)^7$	−1	$E(9)^2+E(9)^7$	$E(9)^4+E(9)^5$	$E(9)^2+E(9)^7$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	−1	$E(9)^4+E(9)^5$	$E(9)^4+E(9)^5$
χ_5	2	0	$E(9)^4+E(9)^5$	−1	2	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(9)^4+E(9)^5$	−1	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(9)^2+E(9)^7$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(9)^4+E(9)^5$	−1	$E(9)^2+E(9)^7$	$E(9)^2+E(9)^7$
χ_6	2	0	$E(9)^2+E(9)^7$	−1	2	$E(9)^4+E(9)^5$	$E(9)^2+E(9)^7$	−1	$E(9)^4+E(9)^5$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(9)^4+E(9)^5$	$E(9)^2+E(9)^7$	−1	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$
χ_7	2	0	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	−1	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(27)^8+E(27)^{17}$	2	$E(9)^2+E(9)^7$	$E(27)^7+E(27)^{22}$	$E(27)^7+E(27)^{20}$	$E(27)^8+E(27)^{19}$	$E(9)^4+E(9)^5$	$-E(27)^7-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(27)^{13}+E(27)^{14}$
χ_8	2	0	$E(27)^{10}+E(27)^{17}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	−1	$E(27)^7+E(27)^{20}$	$E(27)^8+E(27)^{19}$	$E(9)^2+E(9)^7$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(27)^{11}+E(27)^{16}$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$E(9)^4+E(9)^5$	$E(27)^{13}+E(27)^{14}$	$E(27)^5+E(27)^{22}$
χ_9	2	0	$E(27)^8+E(27)^{19}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	−1	$E(27)^{11}+E(27)^{16}$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$E(9)^2+E(9)^7$	$E(27)^7+E(27)^{20}$	$E(27)^{13}+E(27)^{14}$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(27)^{10}+E(27)^{17}$	$E(9)^4+E(9)^5$	$E(27)^7+E(27)^{22}$	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$
χ_{10}	2	0	$E(27)^{13}+E(27)^{14}$	$E(9)^4+E(9)^5$	−1	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$E(27)^7+E(27)^{22}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(27)^{11}+E(27)^{16}$	$E(27)^{10}+E(27)^{17}$	$E(27)^5+E(27)^{22}$	$E(9)^2+E(9)^7$	$E(9)^4+E(9)^5$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(27)^7+E(27)^{20}$
χ_{11}	2	0	$E(27)^7+E(27)^{22}$	$E(9)^4+E(9)^5$	−1	$E(27)^{10}+E(27)^{17}$	$-E(27)^7-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(27)^8+E(27)^{19}$	$E(9)^2+E(9)^7$	$E(9)^4+E(9)^5$	$E(27)^7+E(27)^{20}$	$E(27)^{11}+E(27)^{16}$
χ_{12}	2	0	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(9)^4+E(9)^5$	−1	$E(27)^8+E(27)^{19}$	$E(27)^{13}+E(27)^{14}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$E(27)^{10}+E(27)^{17}$	$E(27)^7+E(27)^{20}$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$E(27)^5+E(27)^{22}$	$E(9)^2+E(9)^7$	$E(27)^{11}+E(27)^{16}$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$
χ_{13}	2	0	$E(27)^{11}+E(27)^{16}$	$E(9)^2+E(9)^7$	−1	$E(27)^5+E(27)^{22}$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(9)^4+E(9)^5$	$E(27)^{13}+E(27)^{14}$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(9)^4+E(9)^5$	$E(27)^8+E(27)^{19}$	$E(27)^{10}+E(27)^{17}$	$E(27)^8+E(27)^{19}$
χ_{14}	2	0	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$E(9)^4+E(9)^5$	−1	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(27)^5+E(27)^{22}$	$E(9)^2+E(9)^7$	$E(9)^4+E(9)^5$	$E(27)^8+E(27)^{19}$	$E(27)^{10}+E(27)^{17}$	$E(27)^{11}+E(27)^{16}$	$E(9)^2+E(9)^7$	$E(27)^8+E(27)^{19}$	$E(27)^{10}+E(27)^{17}$
χ_{15}	2	0	$E(27)^7+E(27)^{20}$	$E(9)^2+E(9)^7$	−1	$E(27)^{13}+E(27)^{14}$	$E(27)^{11}+E(27)^{16}$	$E(9)^4+E(9)^5$	$-E(27)^5-E(27)^{13}-E(27)^{14}-E(27)^{22}$	$E(27)^8+E(27)^{19}$	$E(27)^5+E(27)^{22}$	$-E(27)^7-E(27)^{11}-E(27)^{16}-E(27)^{20}$	$-E(9)^2-E(9)^4-E(9)^5-E(9)^7$	$-E(27)^8-E(27)^{10}-E(27)^{17}-E(27)^{19}$	$E(27)^{10}+E(27)^{17}$

Trivial source character table of $G \cong$ D54 at $p = 3$:

Normalisers N_i	N_1		N_2		N_3		N_4	
3-subgroups of G up to conjugacy in G	P_1		P_2		P_3		P_4	
Representatives $n_j \in N_i$	1a	2a	1a	2a	1a	2a	1a	2a
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15}$	27	−1	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15}$	27	1	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	9	1	9	1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	9	−1	9	−1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	−1	3	−1	3	−1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	1	3	1	3	1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	−1	1	−1	1	−1	1	−1

$P_1 = Group(\{()\}) \cong 1$
$P_2 = Group(\{(1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50)\}) \cong$ C3
$P_3 = Group(\{(1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50), (1, 27, 26, 14, 13, 12, 5, 4, 40)(2, 34, 33, 20, 19, 18, 8, 7, 46)(3, 39, 38, 25, 24, 23, 11, 10, 49)(6, 45, 44, 32, 31, 30, 17, 16, 52)(9, 48, 47, 37, 36, 35, 22, 21, 53)(15, 51, 50, 43, 42, 41, 29, 28, 54)\}) \cong$ C9
$P_4 = Group(\{(1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50), (1, 27, 26, 14, 13, 12, 5, 4, 40)(2, 34, 33, 20, 19, 18, 8, 7, 46)(3, 39, 38, 25, 24, 23, 11, 10, 49)(6, 45, 44, 32, 31, 30, 17, 16, 52)(9, 48, 47, 37, 36, 35, 22, 21, 53)(15, 51, 50, 43, 42, 41, 29, 28, 54), (1, 35, 25, 27, 22, 24, 26, 21, 23, 14, 53, 11, 13, 9, 10, 12, 48, 49, 5, 47, 3, 4, 37, 39, 40, 36, 38)(2, 41, 32, 34, 29, 31, 33, 28, 30, 20, 54, 17, 19, 15, 16, 18, 51, 52, 8, 50, 6, 7, 43, 45, 46, 42, 44)\} \cong$ C27

$N_1 = Group([(1, 2)(3, 28)(4, 33)(5, 20)(6, 21)(7, 26)(8, 14)(9, 16)(10, 15)(11, 51)(12, 19)(13, 18)(17, 48)(22, 45)(23, 50)(24, 43)(25, 42)(27, 46)(29, 39)(30, 47)(31, 37)(32, 36)(34, 40)(35, 44)(38, 41)(49, 54)(52, 53), (1, 3, 9, 26, 38, 47, 13, 24, 36, 5, 11, 22, 40, 49, 53, 27, 39, 48, 14, 25, 37, 12, 23, 35, 4, 10, 21)(2, 6, 15, 33, 44, 50, 19, 31, 42, 8, 17, 29, 46, 52, 54, 34, 45, 51, 20, 32, 43, 18, 30, 41, 7, 16, 28), (1, 4, 12, 14, 27, 40, 5, 13, 26)(2, 7, 18, 20, 34, 46, 8, 19, 33)(3, 10, 23, 25, 39, 49, 11, 24, 38)(6, 16, 30, 32, 45, 52, 17, 31, 44)(9, 21, 35, 37, 48, 53, 22, 36, 47)(15, 28, 41, 43, 51, 54, 29, 42, 50), (1, 5, 14)(2, 8, 20)(3, 11, 25)(4, 13, 27)(6, 17, 32)(7, 19, 34)(9, 22, 37)(10, 24, 39)(12, 26, 40)(15, 29, 43)(16, 31, 45)(18, 33, 46)(21, 36, 48)(23, 38, 49)(28, 42, 51)(30, 44, 52)(35, 47, 53)(41, 50, 54)\}) \cong$ D54
$N_2 = Group([(1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50), (1, 2)(3, 28)(4, 33)(5, 20)(6, 21)(7, 26)(8, 14)(9, 16)(10, 15)(11, 51)(12, 19)(13, 18)(17, 48)(22, 45)(23, 50)(24, 43)(25, 42)(27, 46)(29, 39)(30, 47)(31, 37)(32, 36)(34, 40)(35, 44)(38, 41)(49, 54)(52, 53), (1, 3, 9, 26, 38, 47, 13, 24, 36, 5, 11, 22, 40, 49, 53, 27, 39, 48, 14, 25, 37, 12, 23, 35, 4, 10, 21)(2, 6, 15, 33, 44, 50, 19, 31, 42, 8, 17, 29, 46, 52, 54, 34, 45, 51, 20, 32, 43, 18, 30, 41, 7, 16, 28)\} \cong$ D54
$N_3 = Group([(1, 27, 26, 14, 13, 12, 5, 4, 40)(2, 34, 33, 20, 19, 18, 8, 7, 46)(3, 39, 38, 25, 24, 23, 11, 10, 49)(6, 45, 44, 32, 31, 30, 17, 16, 52)(9, 48, 47, 37, 36, 35, 22, 21, 53)(15, 51, 50, 43, 42, 41, 29, 28, 54), (1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50), (1, 2)(3, 28)(4, 33)(5, 20)(6, 21)(7, 26)(8, 14)(9, 16)(10, 15)(11, 51)(12, 19)(13, 18)(17, 48)(22, 45)(23, 50)(24, 43)(25, 42)(27, 46)(29, 39)(30, 47)(31, 37)(32, 36)(34, 40)(35, 44)(38, 41)(49, 54)(52, 53)\} \cong$ D54
$N_4 = Group([(1, 35, 25, 27, 22, 24, 26, 21, 23, 14, 53, 11, 13, 9, 10, 12, 48, 49, 5, 47, 3, 4, 37, 39, 40, 36, 38)(2, 41, 32, 34, 29, 31, 33, 28, 30, 20, 54, 17, 19, 15, 16, 18, 51, 52, 8, 50, 6, 7, 43, 45, 46, 42, 44), (1, 27, 26, 14, 13, 12, 5, 4, 40)(2, 34, 33, 20, 19, 18, 8, 7, 46)(3, 39, 38, 25, 24, 23, 11, 10, 49)(6, 45, 44, 32, 31, 30, 17, 16, 52)(9, 48, 47, 37, 36, 35, 22, 21, 53)(15, 51, 50, 43, 42, 41, 29, 28, 54), (1, 14, 5)(2, 20, 8)(3, 25, 11)(4, 27, 13)(6, 32, 17)(7, 34, 19)(9, 37, 22)(10, 39, 24)(12, 40, 26)(15, 43, 29)(16, 45, 31)(18, 46, 33)(21, 48, 36)(23, 49, 38)(28, 51, 42)(30, 52, 44)(35, 53, 47)(41, 54, 50), (1, 2)(3, 28)(4, 33)(5, 20)(6, 21)(7, 26)(8, 14)(9, 16)(10, 15)(11, 51)(12, 19)(13, 18)(17, 48)(22, 45)(23, 50)(24, 43)(25, 42)(27, 46)(29, 39)(30, 47)(31, 37)(32, 36)(34, 40)(35, 44)(38, 41)(49, 54)(52, 53)\} \cong$ D54