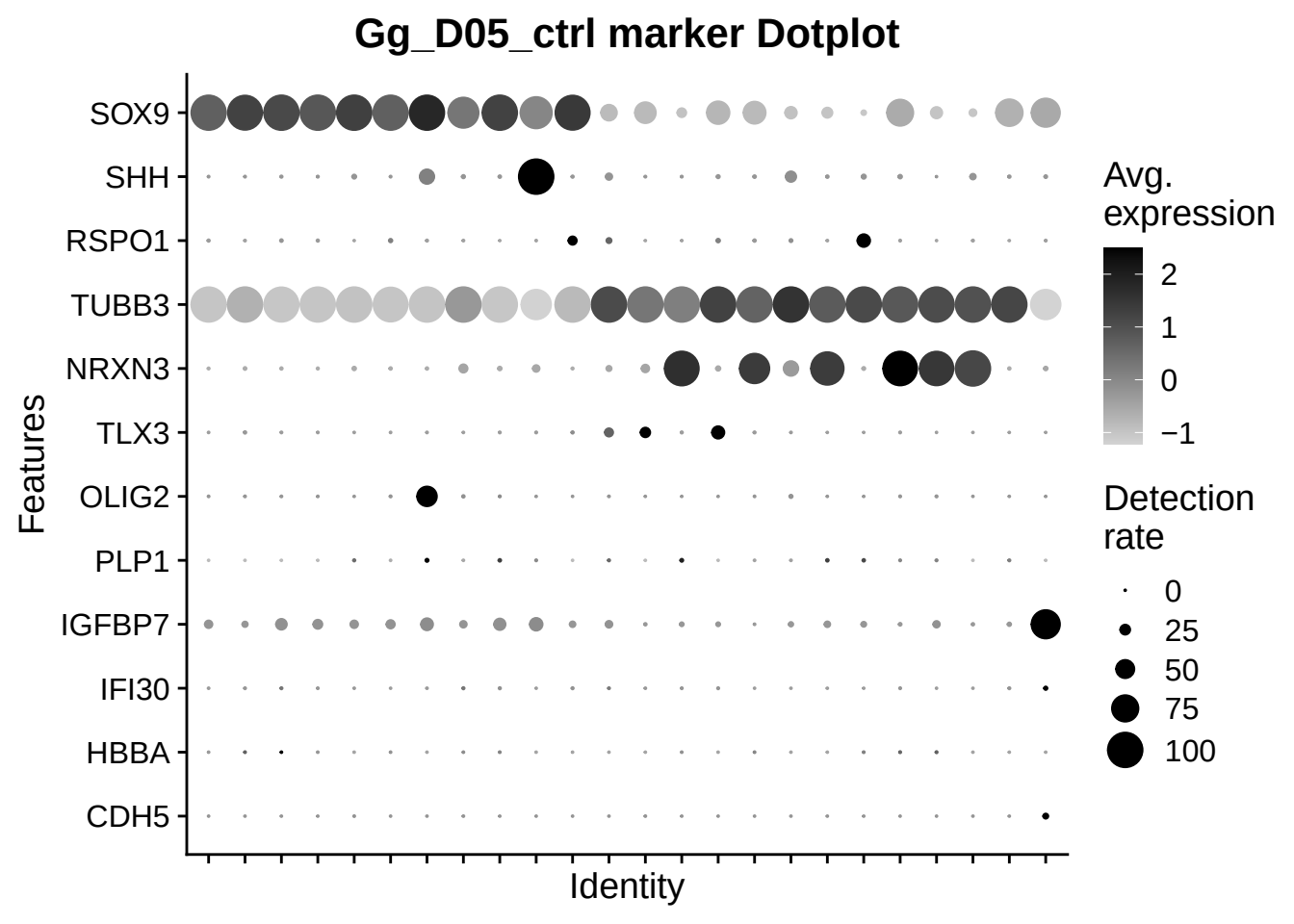
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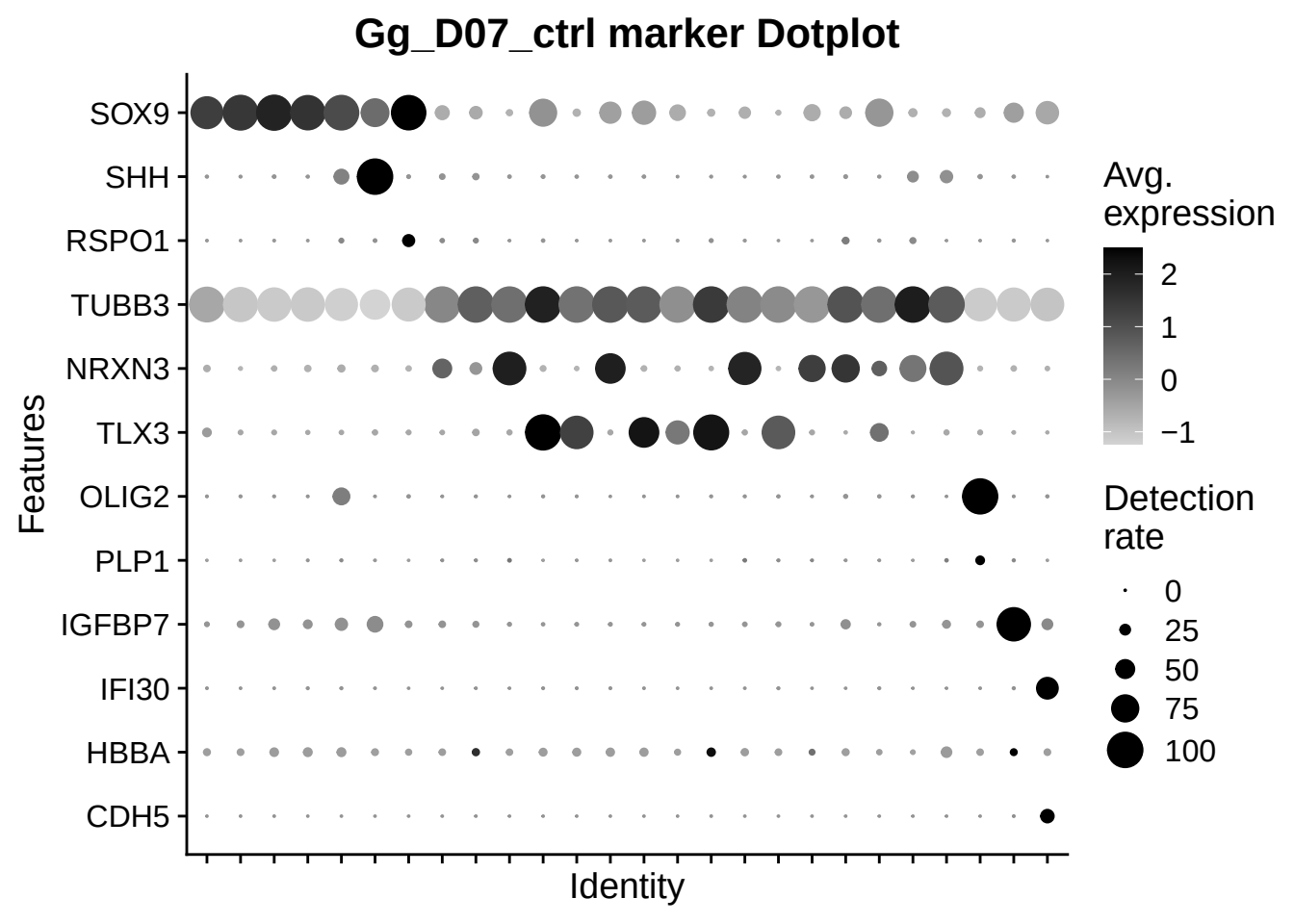
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Avg. expression
2
1
0
−1
Detection rate
0
25
50
75
100

Features
IGFBP7
prog_1
dp4_GSX1_2
dp1_3_PCNA_G2M_3
dp1_3_PCNA_S_4
dp5−p0_DBX2_5
prog_G2M_7
p2_pMN_p3_10
dp6−p0_11
dp5−p0_DBX2_18
FP_15
RP_13
V0_EVX1_6
dI3_dI5_V0_8
dI6−V0_9
dI3_dI5_12
dI6−V0_14
MN_16
LHX1+_prog_17
dI1_19
V1_EN1_20
V2b_22
V1_EN1_SST_23
V2a_SOX14_SHOX2_LHX3_VSX2_24
pericytes_21
Identity
40
60
80
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0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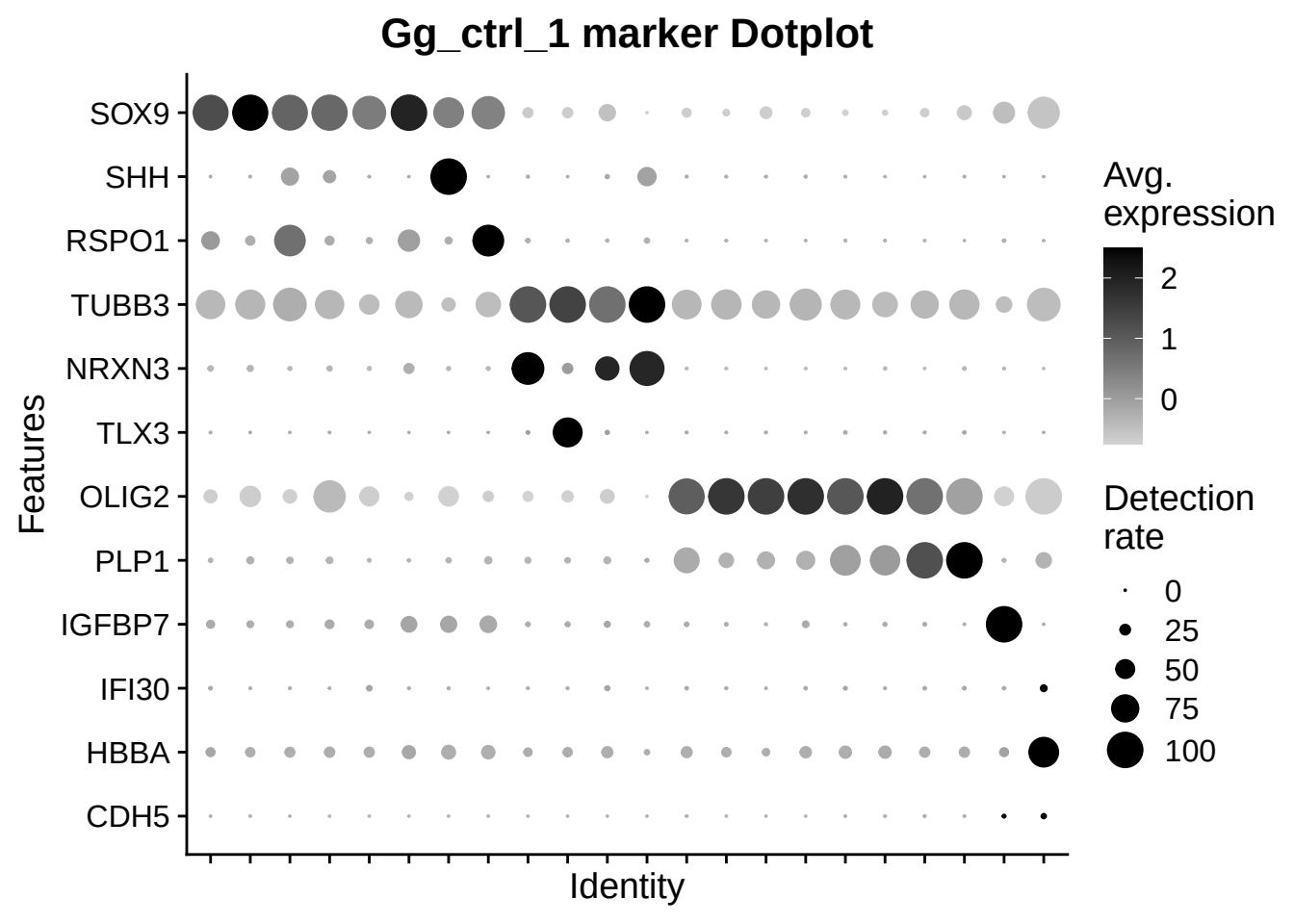
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Avg. expression
2
1
0
−1
Detection rate
0
25
50
75
100

Features
IGFBP7
dp4−dp5_3
dp1−dp3_5
dp1−dp3_10
dp6−p1_14
p2_18
FP_20
RP_19
dI2_dI4_1
dI2_dI4_2
dI6−V0_4
CNTN2_6
dI3_dI5_7
dI6−V0_CNTN2_8
dI3_dI5_9
dI3_dI5_11
dI3_dI5_12
dI6−V0_13
dI3_dI5_15
dI2_dI4_16
V1_CNTN2_21
dI6−V0_CNTN2_22
MN_24
BHLHE22_Foxp1_26
OPC_17
pericytes_23
microglia_vasculature_25
Identity
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
Detection rate
25
50
75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SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Avg. expression
2
1
0
Detection rate
0
25
50
75
100

Features
IGFBP7
NPC_2
NPC_3
NPC_ventral_NKX6_4
NPC_ventral_NKX6_8
NPCPAX6_13
_17
FP_18
RP_22
interneurons_PAX2_BHLHE22_PRDM8_12
neurons_NRN1_15
CSF−cNS_19
MN_21
OPC_1
OPC_5
OPC_6
OPC_9
OPC_10
OPC_14
MFOL_7
MFOL_11
pericytes_16
blood_vasc_microglia_20
Identity
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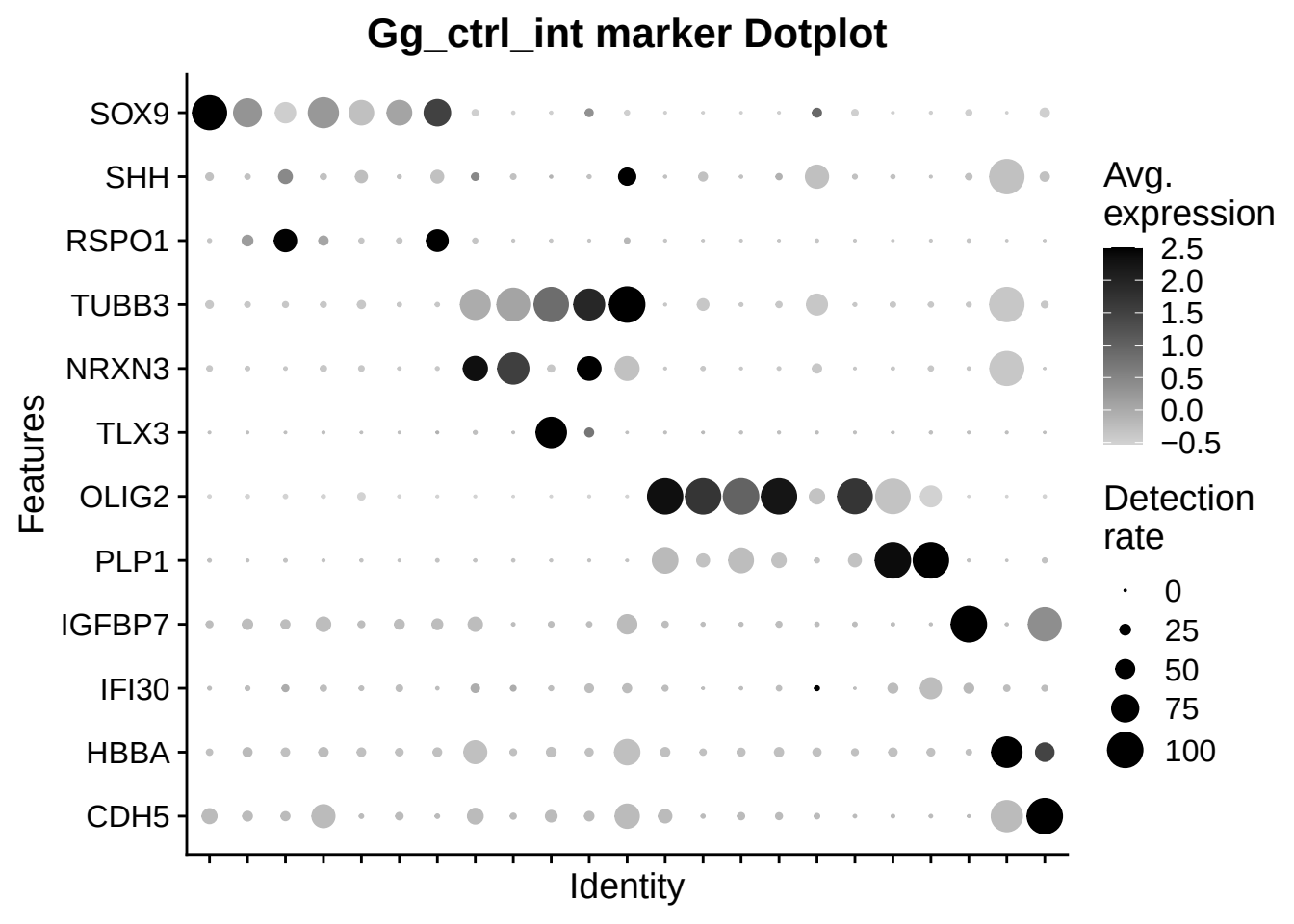
0.5
0.0
Detection rate
0
25
50
75
100


Gg_ctrl_int marker Dotplot
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
Detection rate
0
25
50
75
100

Features
IGFBP7
NPC_1
NPC_4
NPC_7
NPC_10
NPC_12
NPC_13
FP/RP_17
inhibitory_neurons_6
inhibitory_neurons_8
excitatory neurons_11
inhibitory_neurons_16
MN_20
OPC_2
OPC_3
OPC_5
OPC_9
OPC_14
OPC_21
MFOL_15
MFOL_19
pericytes_18
blood_22
vasculature_23
Identity
Avg. expression
2.5
2.0
1.5
1.0
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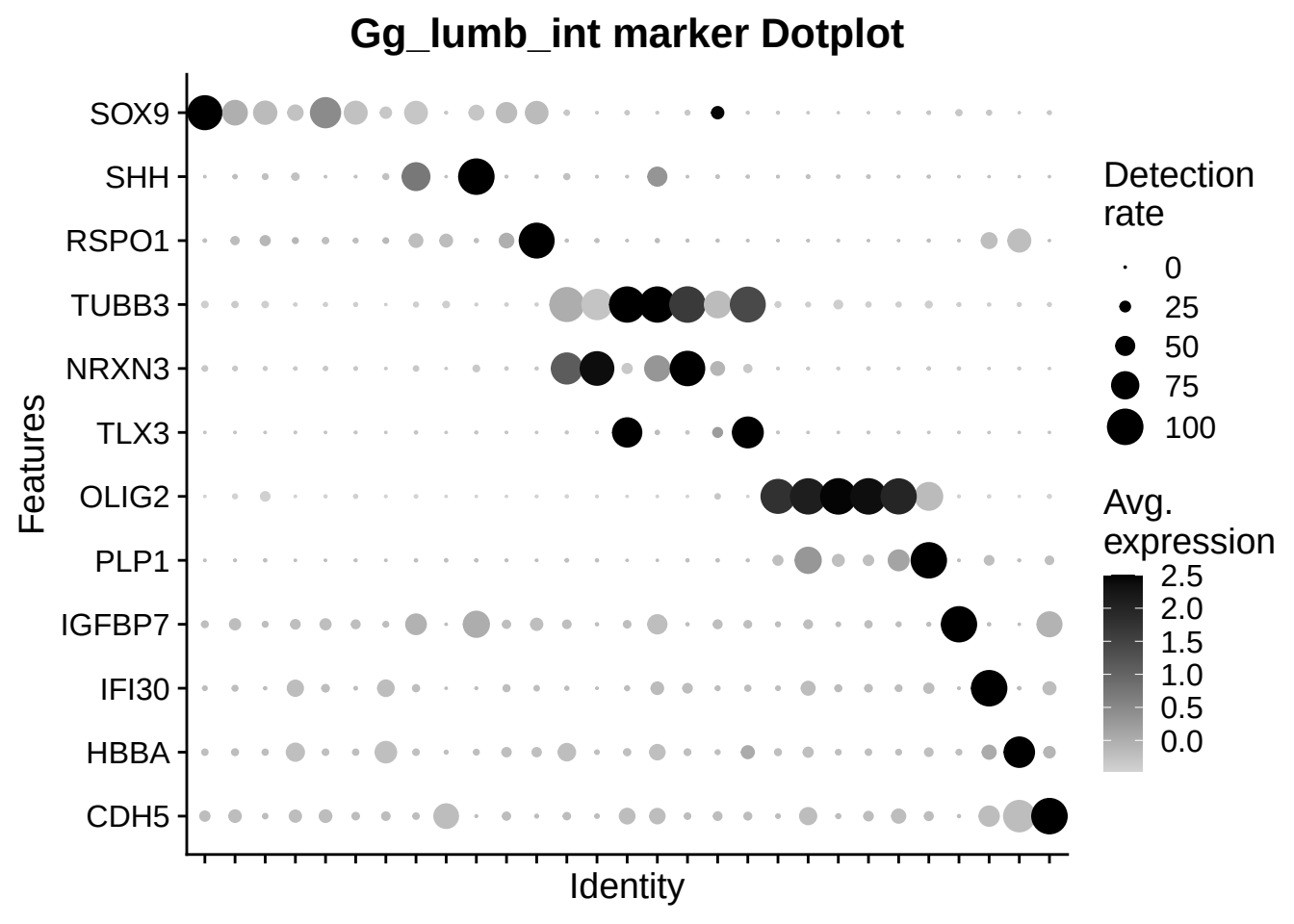
0.0
Detection rate
25
50
75
100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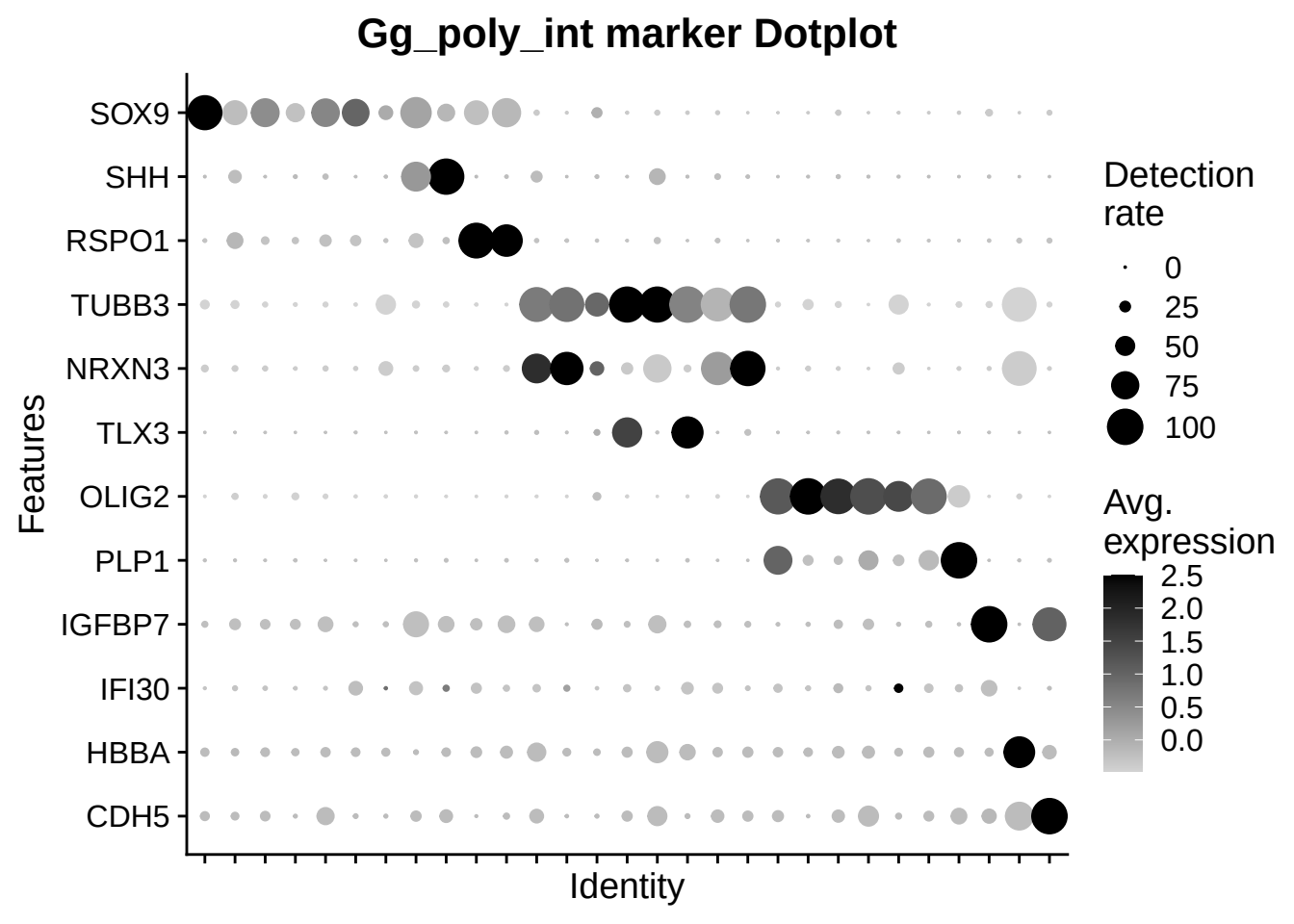
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Detection rate
0
25
50
75
100
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0

Features
IGFBP7
progenitors_1
progenitors_2
progenitors_3
progenitors_GSTA4_ENO1_GBE1_4
progenitors_9
progenitors_PAX6_NKX6−1_10
progenitors_GSTA4_ENO1_GBE1_14
NPC_ventral_22
NPC_ribo_27
FP_23
RP_18
RP_19
inhibitory_neurons_11
inhibitory_neurons_13
excitatory_neurons_15
inhibitory_neurons_20
inhibitory_neurons_21
neurons_24
excitatory_neurons_25
OPC_5
OPC_6
OPC_8
OPC_16
OPC_17
MFOL_7
pericytes_12
microglia_28
blood_26
vasculature_29
Identity
25
50
75
Avg.
expression
2.5
2.0
1.5
1.0
0.5
0.0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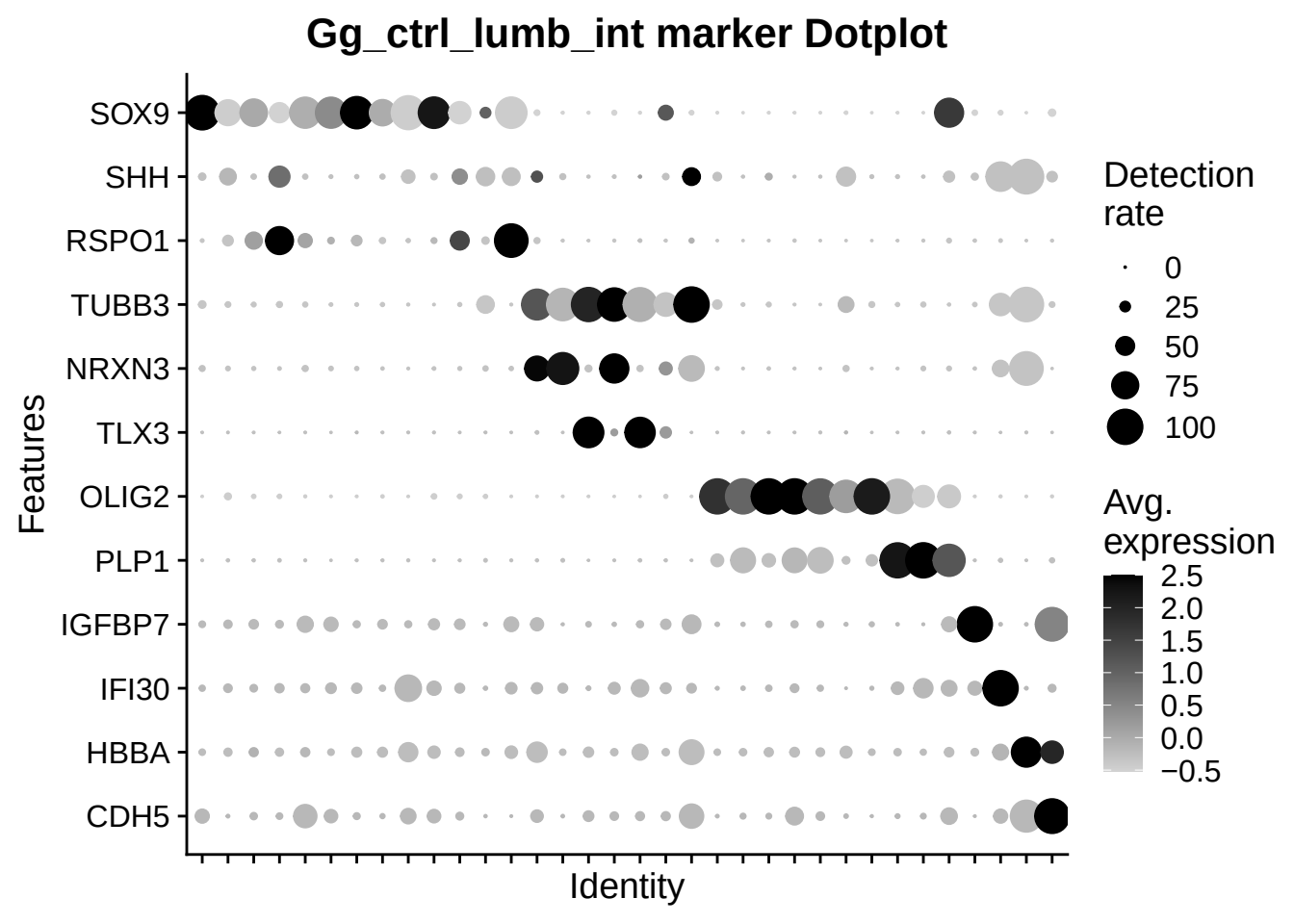
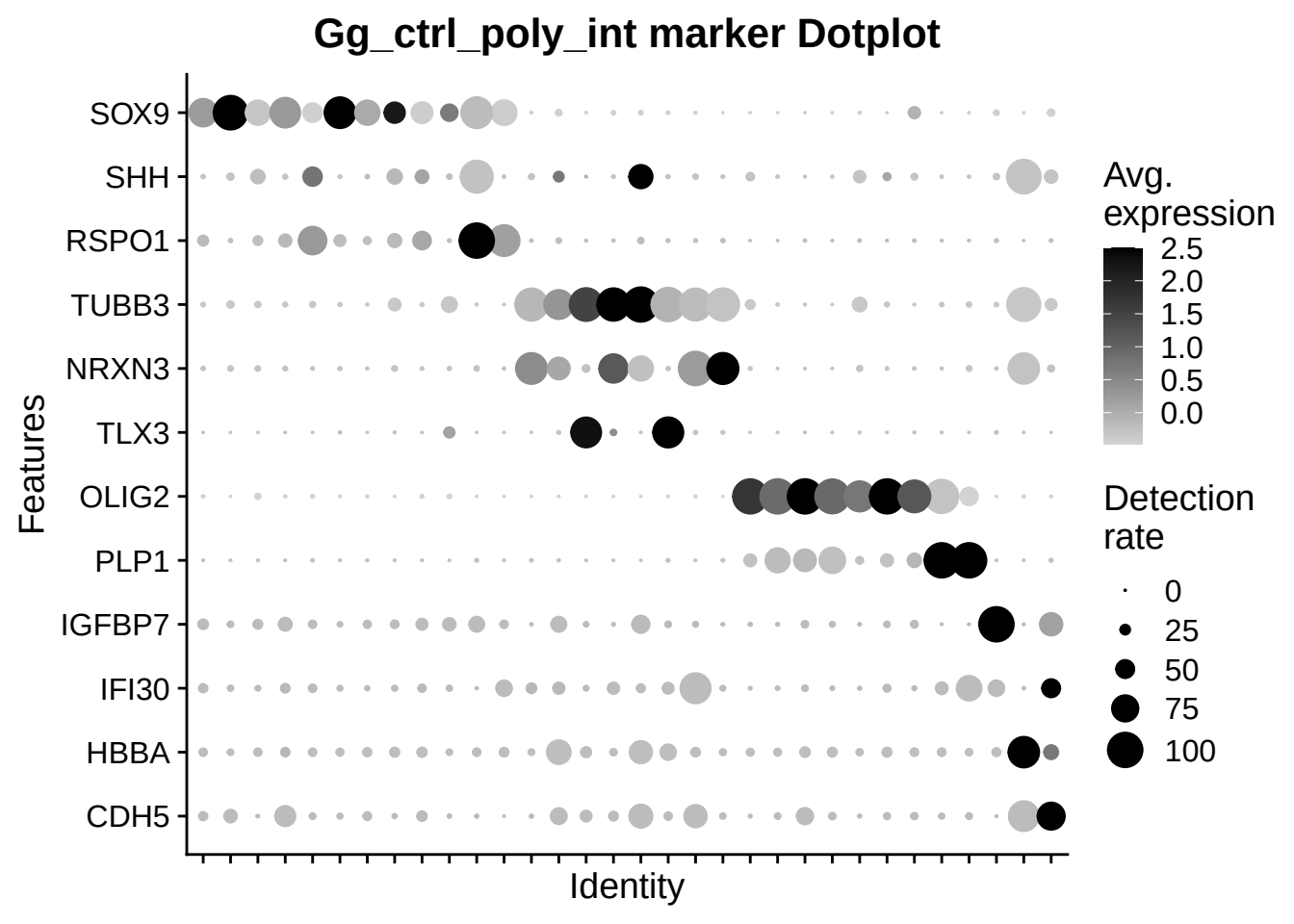
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Detection rate
0
25
50
75
100
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0

Features
IGFBP7
NPC_1
NPC_4
NPC_5
NPC_8
NPC_9
NPC_16
NPC_21
NPC_23
FP_11
RP_12
RP_24
inhibitory_neurons_6
inhibitory_neurons_10
inhibitory_neurons_14
excitatory_neurons_15
MN_22
excitatory_neurons_25
CSF−cNS_26
inhibitory_neurons_28
OPC_2
OPC_3
OPC_7
OPC_17
OPC_18
OPC_19
MFOL_13
pericytes_20
blood_27
vasculature_29
Identity
rate
0
25
50
75
100
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0


Gg_ctrl_lumb_int marker Dotplot
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Detection rate
0
25
50
75
100
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
−0.5

Features
IGFBP7
progenitors_2
progenitors_5
progenitors_6
progenitors_10
progenitors_11
progenitors_13
progenitors_15
progenitors_19
progenitors_21
progenitors_22
progenitors_23
progenitors_25
FP/RP_12
inhibitory_neurons_3
inhibitory_neurons_7
excitatory_neurons_17
inhibitory_neurons_20
excitatory_neurons_27
neurons_28
MN_30
OPC_1
OPC_4
OPC_8
OPC_9
OPC_24
OPC_26
OPC_29
MFOL_16
MFOL_18
MFOL_34
pericytes_14
microglia_33
blood_31
vasculature_32
Identity
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
Detection rate
25
50
75
100


Gg_ctrl_poly_int marker Dotplot
SOX9
SHH
RSPO1
TUBB3
NRXN3
TLX3
OLIG2
PLP1
IGFBP7
IFI30
HBBA
CDH5
Features
Identity
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
Detection rate
0
25
50
75
100

Features
IGFBP7
NPC_1
NPC_3
NPC_7
NPC_9
NPC_13
NPC_16
NPC_17
NPC_18
NPC_19
NPC_27
FP_23
RP_22
inhibitory_neurons_5
inhibitory_neurons_6
excitatory_neurons_11
inhibitory_neurons_20
MN_25
excitatory_neurons_29
CSF−cNS_30
inhibitory_neurons_32
OPC_2
OPC_4
OPC_8
OPC_12
OPC_14
OPC_15
OPC_26
MFOL_10
MFOL_24
pericytes_21
blood_28
vasculature_31
Identity
Avg. expression
2.5
2.0
1.5
1.0
0.5
0.0
Detection rate
25
50
75
100