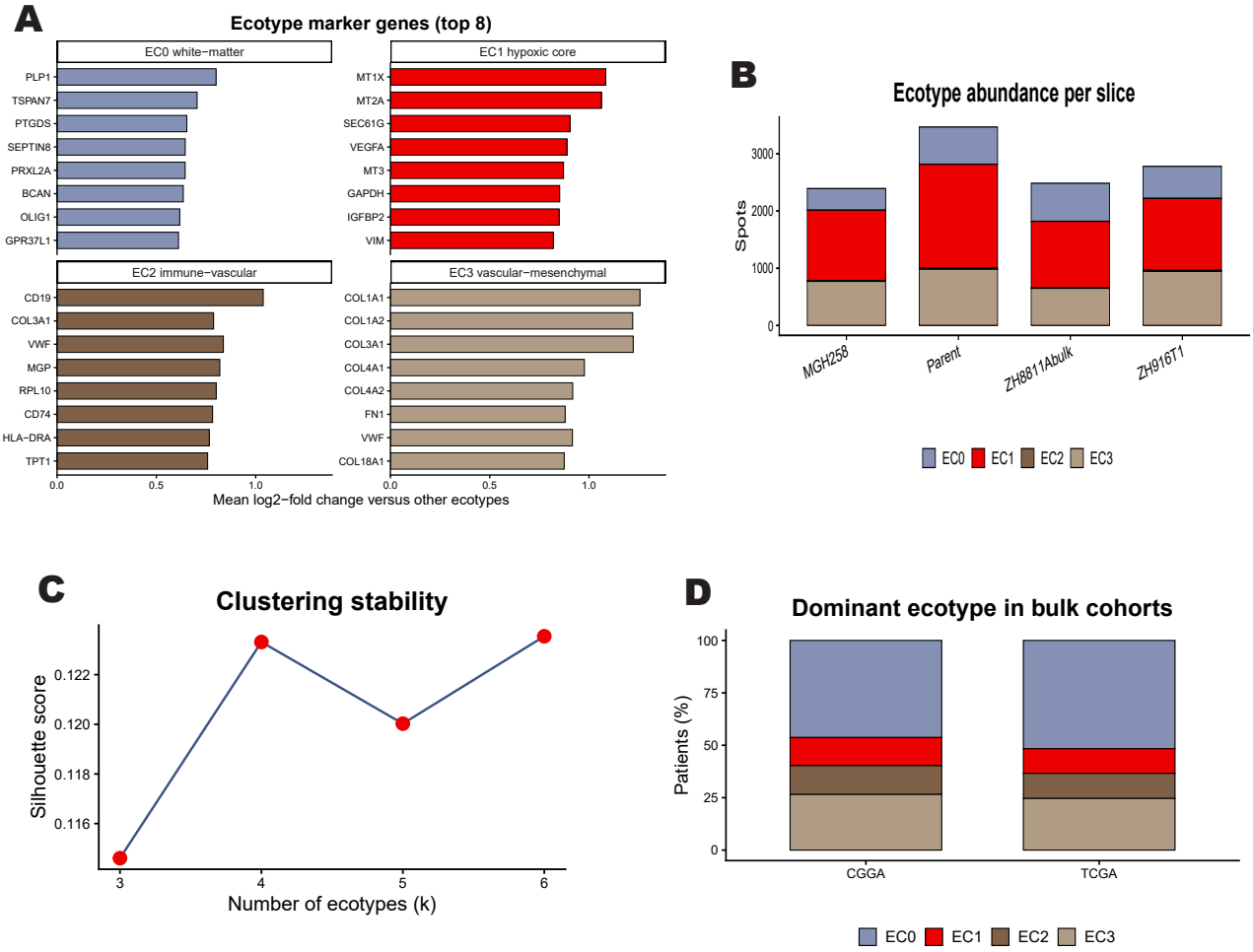

A
Ecotype marker genes (top 8)
EC0 white−matter
PLP1
TSPAN7
PTGDS
SEPTIN8
PRXL2A
BCAN
OLIG1
GPR37L1
EC1 hypoxic core
MT1X
MT2A
SEC61G
VEGFA
MT3
GAPDH
IGFBP2
VIM
EC2 immune−vascular
CD19
COL3A1
VWF
MGP
RPL10
CD74
HLA−DRA
TPT1
EC3 vascular−mesenchymal
COL1A1
COL1A2
COL3A1
COL4A1
COL4A2
FN1
VWF
COL18A1
0.0
0.5
1.0
Mean log2−fold change versus other ecotypes
B
Ecotype abundance per slice
Spots
3000
2000
1000
0
MGH258
Parent
ZH8811Abulk
ZH916T1
EC0
EC1
EC2
EC3
C
Clustering stability
Silhouette score
0.122
0.120
0.118
0.116
3
4
5
6
Number of ecotypes (k)
D
Dominant ecotype in bulk cohorts
Patients (%)
100
75
50
25
0
CGGA
TCGA
EC0
EC1
EC2
EC3