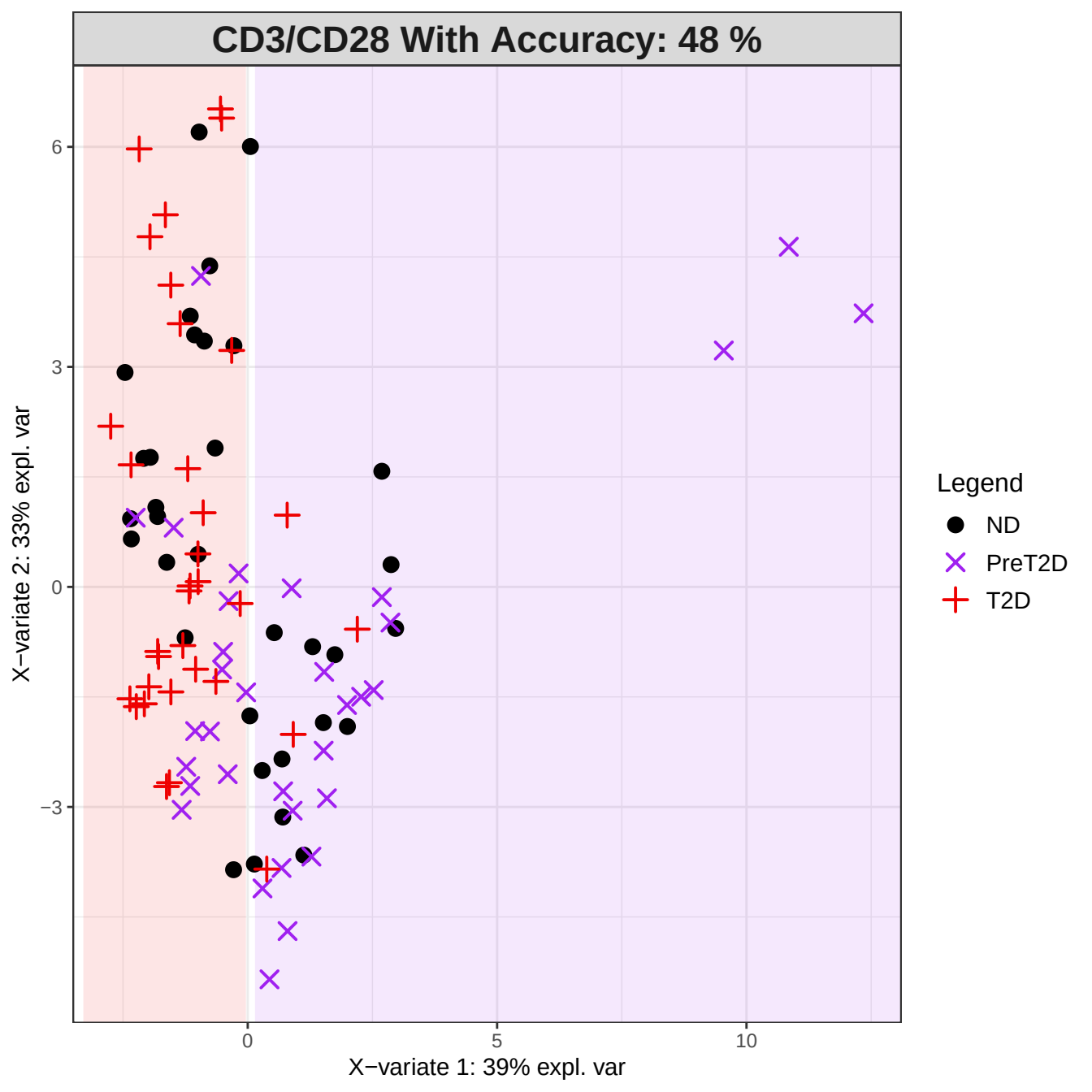
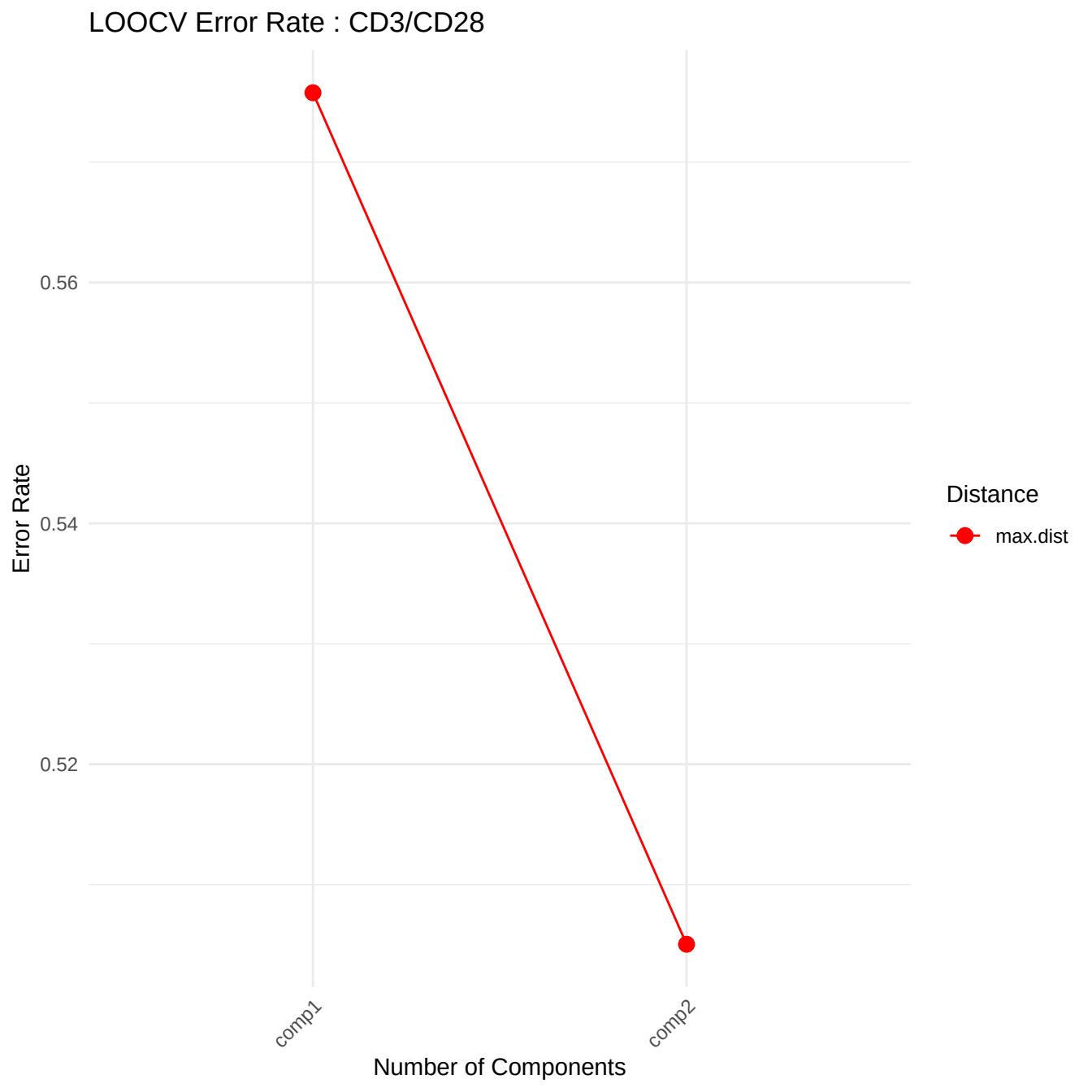
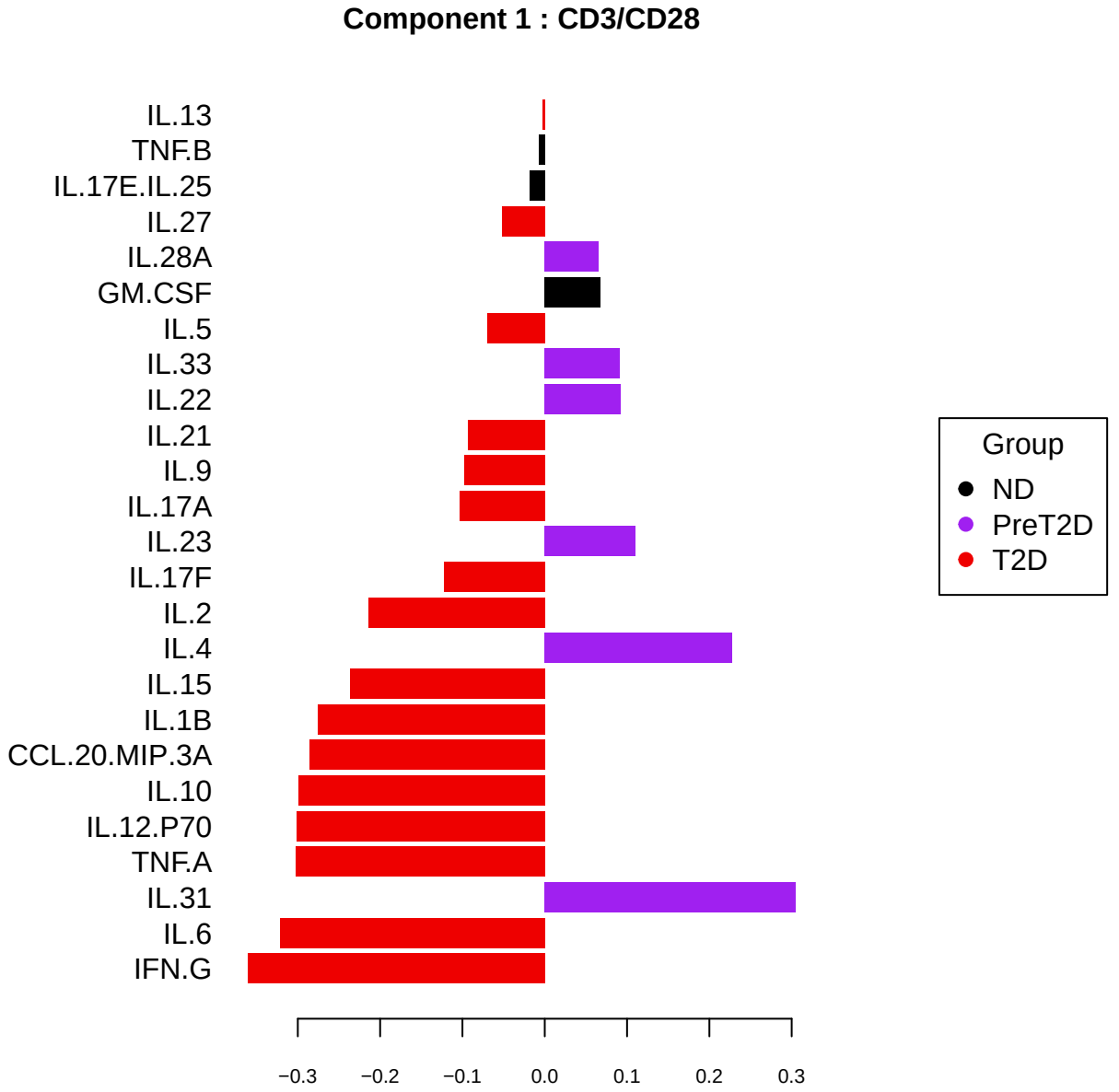
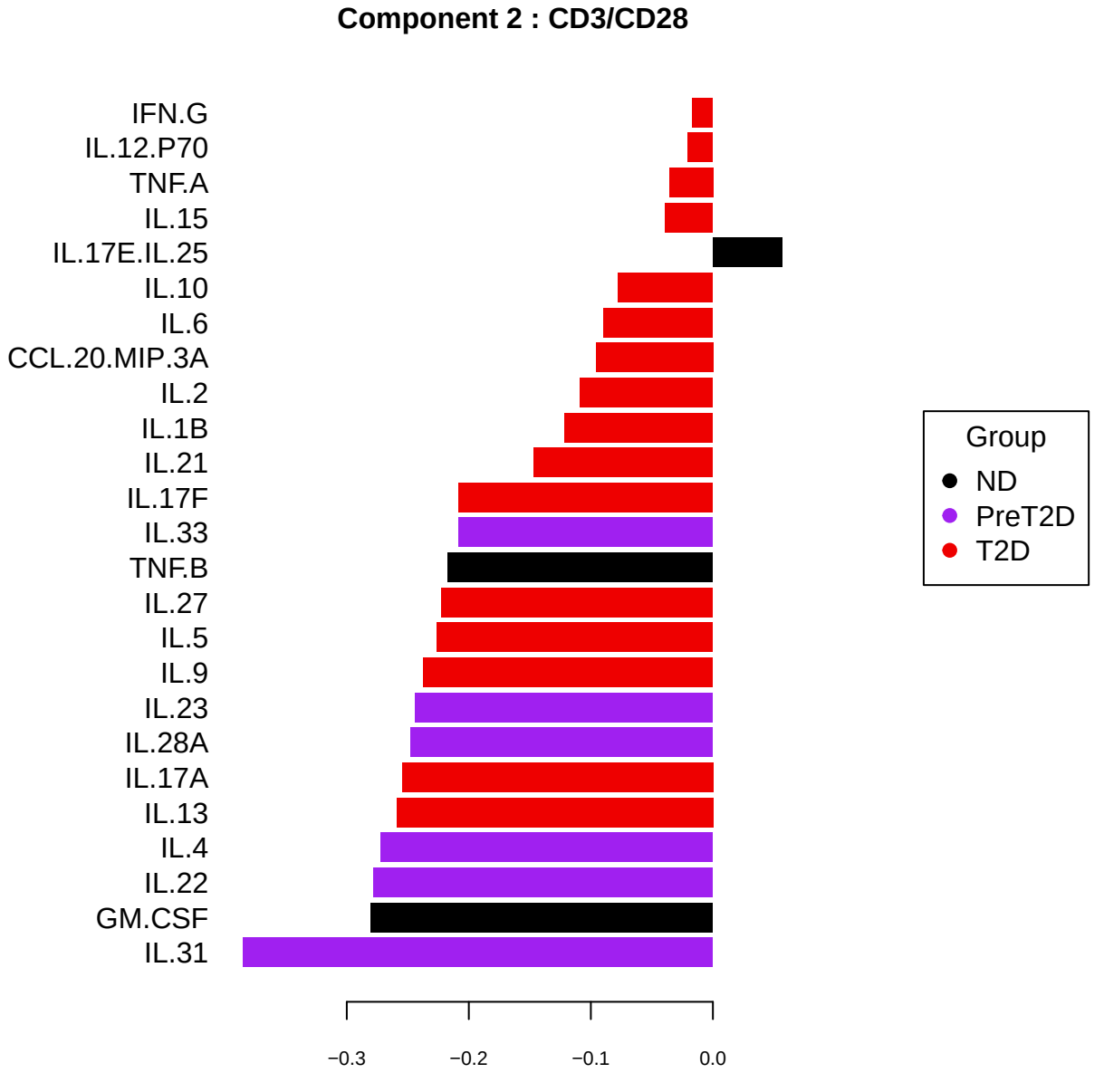
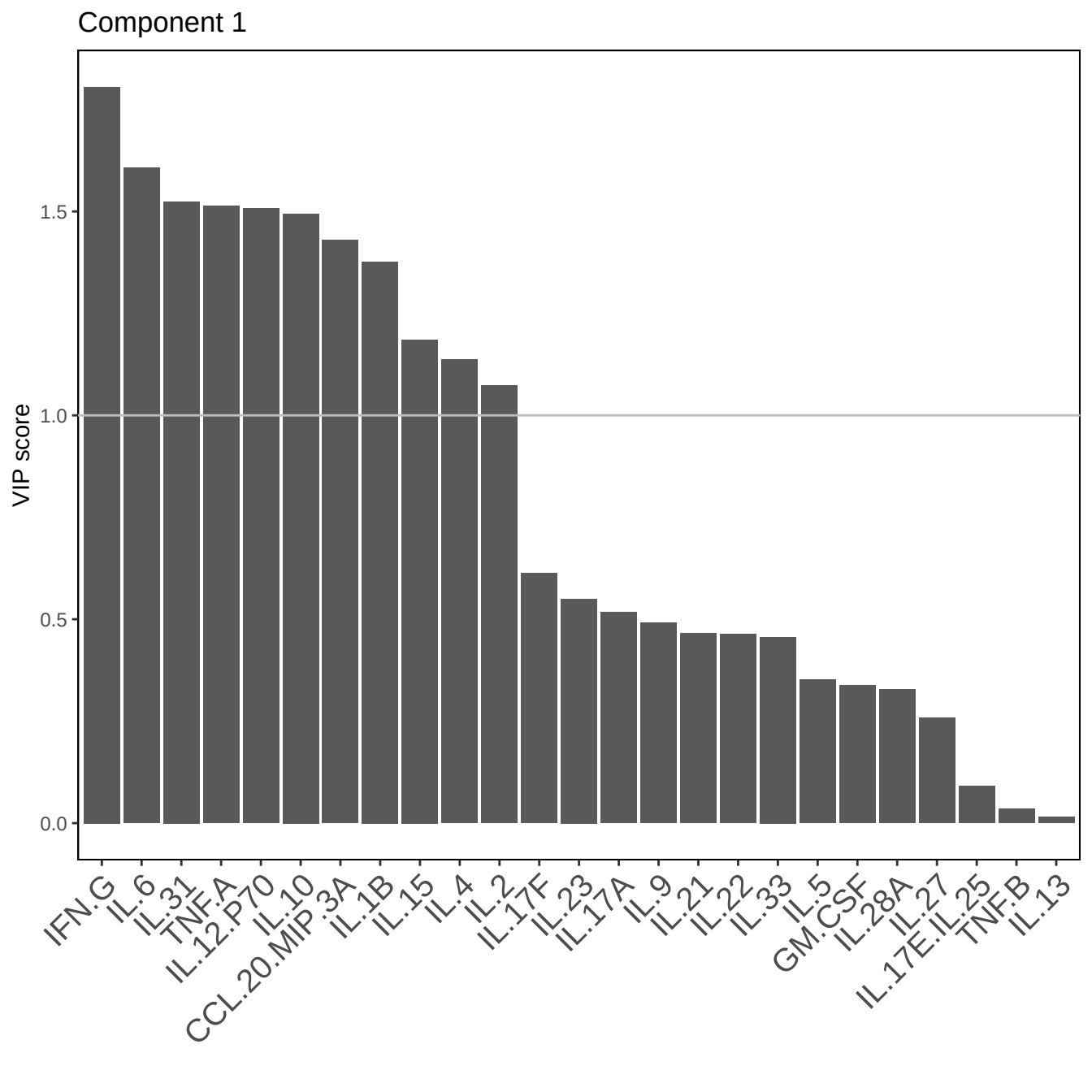
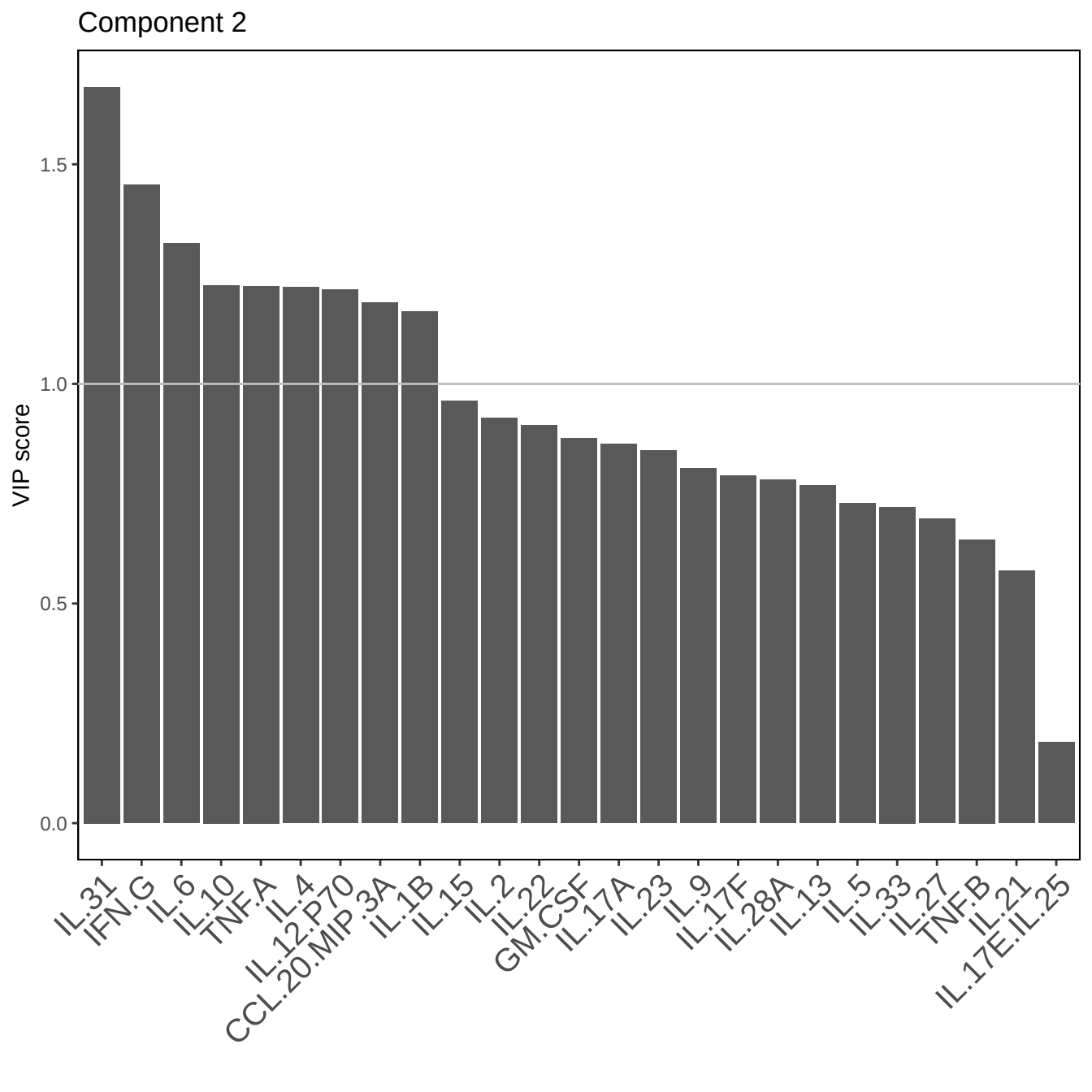

CD3/CD28 With Accuracy: 48 %
6
3
0
−3
X−variate 2: 33% expl. var
0
5
10
X−variate 1: 39% expl. var
Legend
ND
PreT2D
T2D

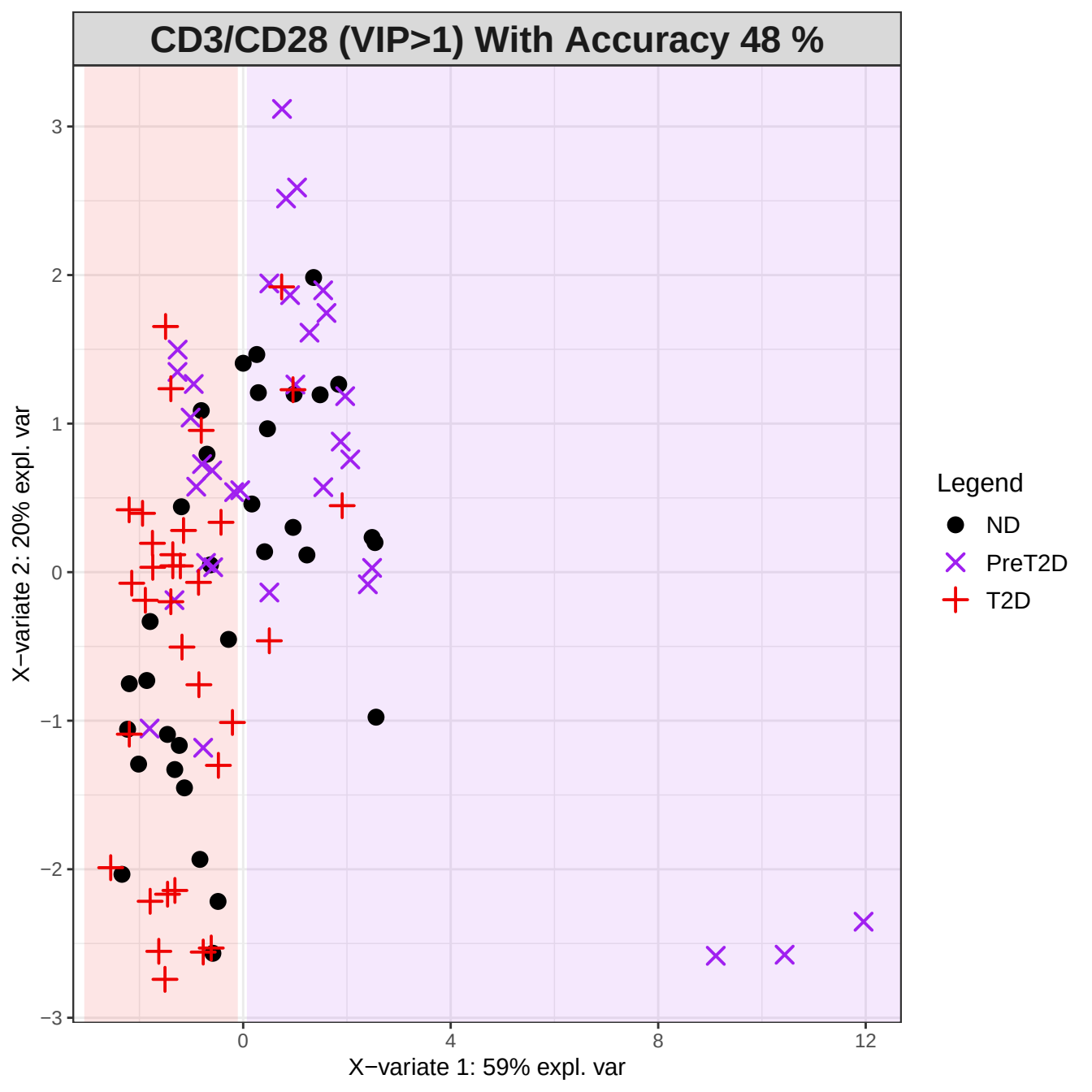

LOOCV Error Rate : CD3/CD28
0.56
0.54
0.52
Error Rate
comp1
comp2
Number of Components
Distance
max.dist

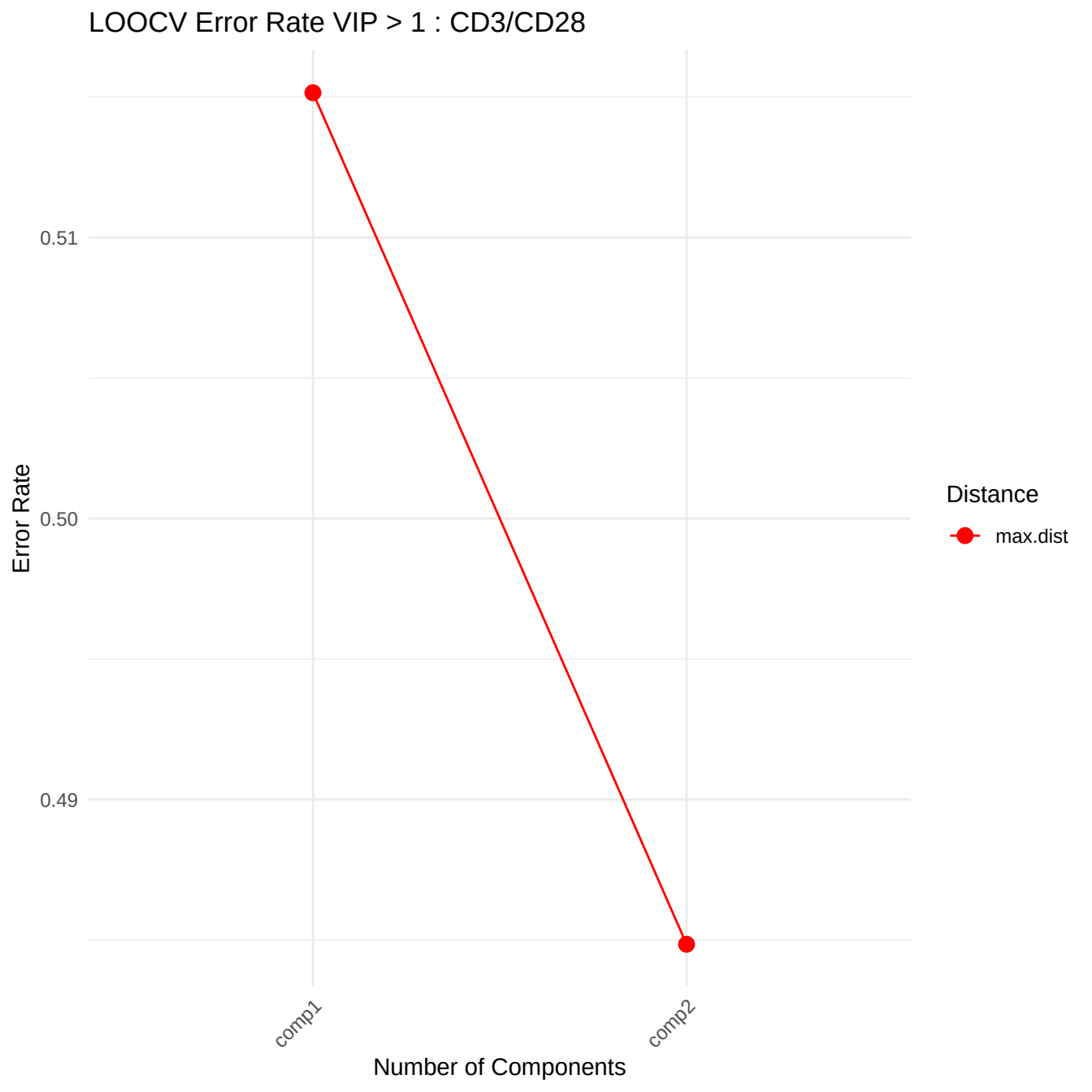

Component 1 : CD3/CD28
IL.13
TNF.B
IL.17E.IL.25
IL.27
IL.28A
GM.CSF
IL.5
IL.33
IL.22
IL.21
IL.9
IL.17A
IL.23
IL.17F
IL.2
IL.4
IL.15
IL.1B
CCL.20.MIP.3A
IL.10
IL.12.P70
TNF.A
IL.31
IL.6
IFN.G
−0.3
−0.2
−0.1
0.0
0.1
0.2
0.3
Group
ND
PreT2D
T2D

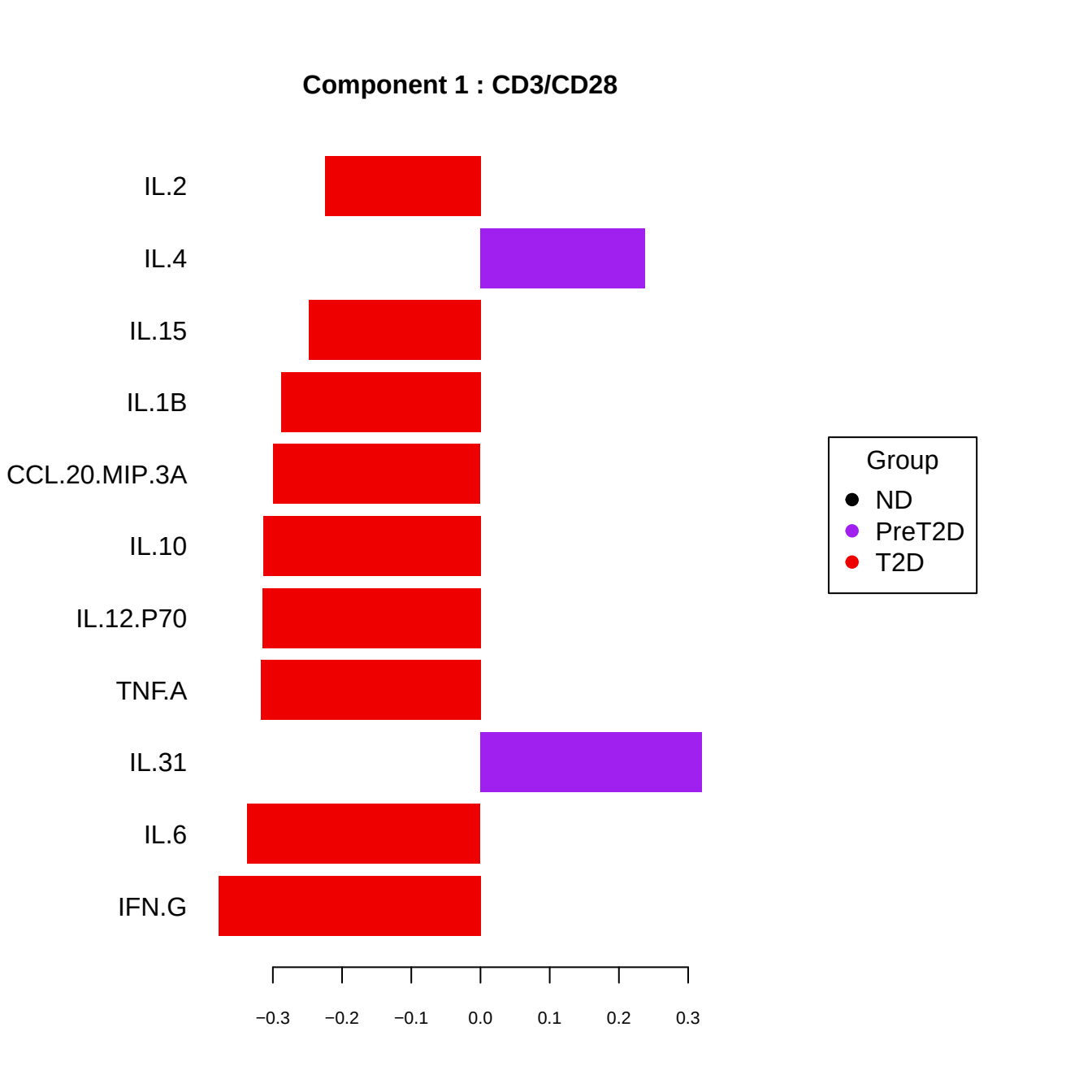

Component 2 : CD3/CD28
IFN.G
IL.12.P70
TNF.A
IL.15
IL.17E.IL.25
IL.10
IL.6
CCL.20.MIP.3A
IL.2
IL.1B
IL.21
IL.17F
IL.33
TNF.B
IL.27
IL.5
IL.9
IL.23
IL.28A
IL.17A
IL.13
IL.4
IL.22
GM.CSF
IL.31
−0.3
−0.2
−0.1
0.0
Group
ND
PreT2D
T2D

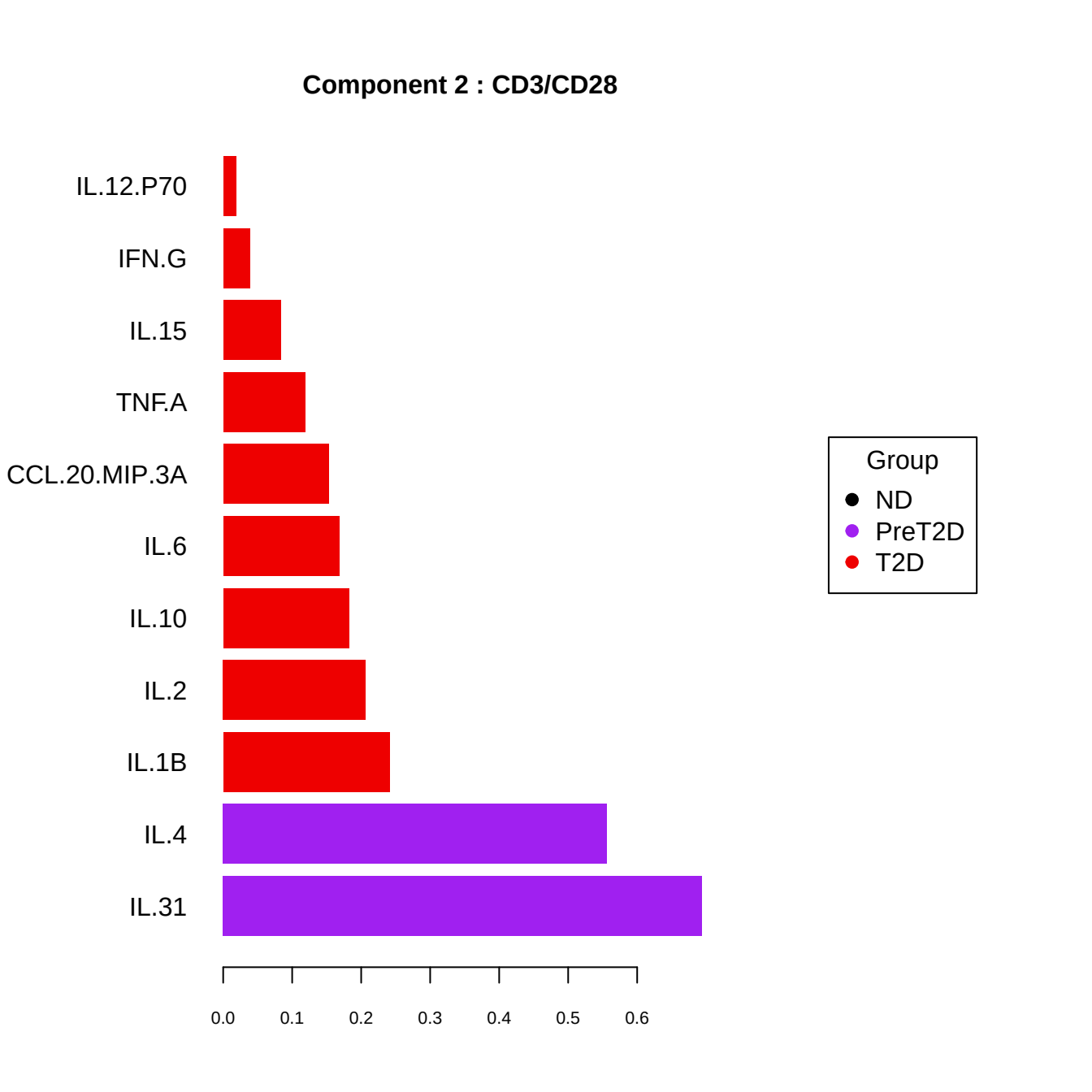

Component 1
VIP score
1.5
1.0
0.5
0.0
IFN.G
IL.6
IL.31
TNF.A
IL.12.P70
IL.10
CCL.20.MIP.3A
IL.1B
IL.15
IL.4
IL.2
IL.17F
IL.23
IL.17A
IL.9
IL.21
IL.22
IL.33
IL.5
GM.CSF
IL.28A
IL.27
IL.17E.IL.25
TNF.B
IL.13

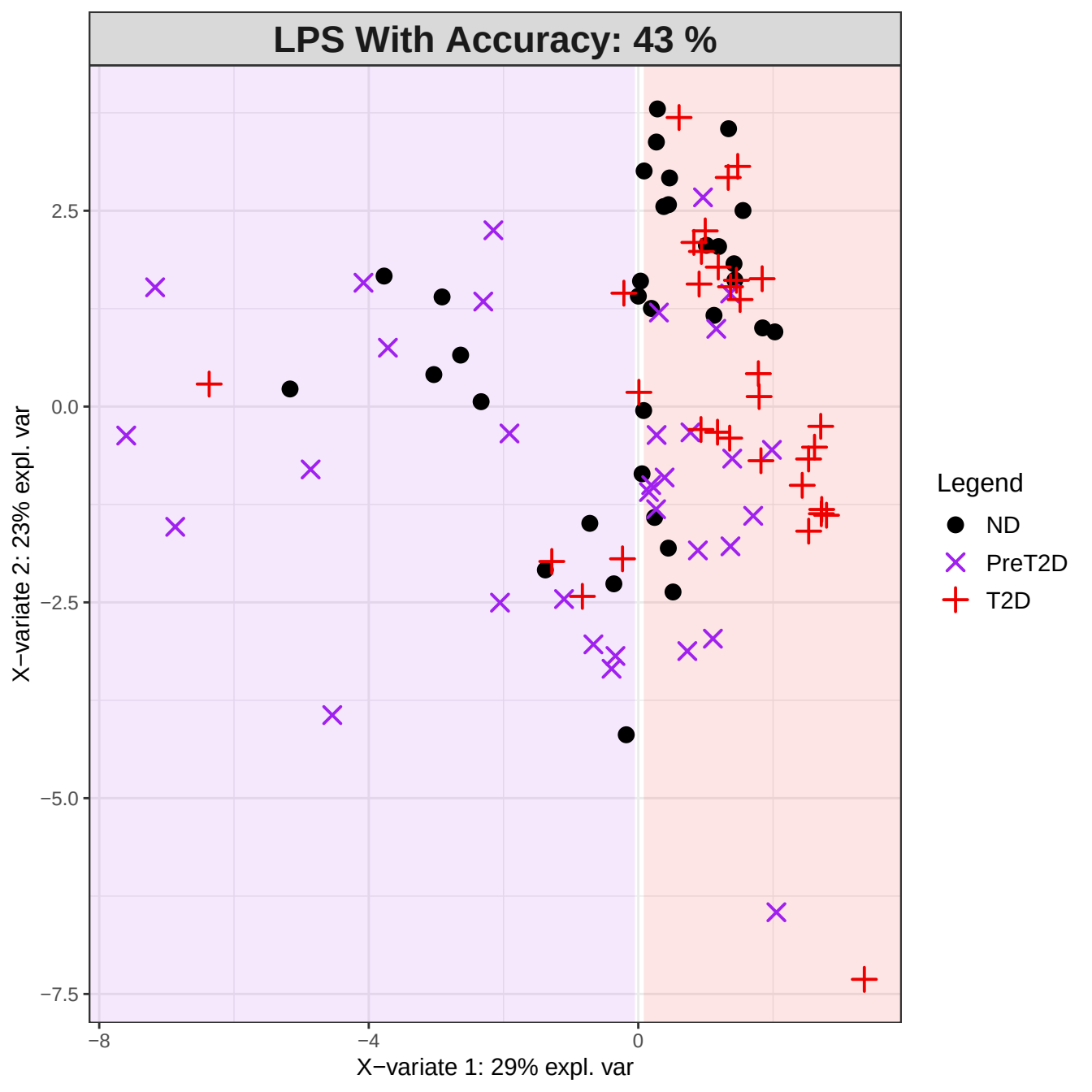

Component 2
VIP score
1.5
1.0
0.5
0.0
IL.31
IFN.G
IL.6
IL.10
TNF.A
IL.4
IL.12.P70
CCL.20.MIP.3A
IL.1B
IL.15
IL.2
IL.22
GM.CSF
IL.17A
IL.23
IL.9
IL.17F
IL.28A
IL.13
IL.5
IL.33
IL.27
TNF.B
IL.21
IL.17E.IL.25

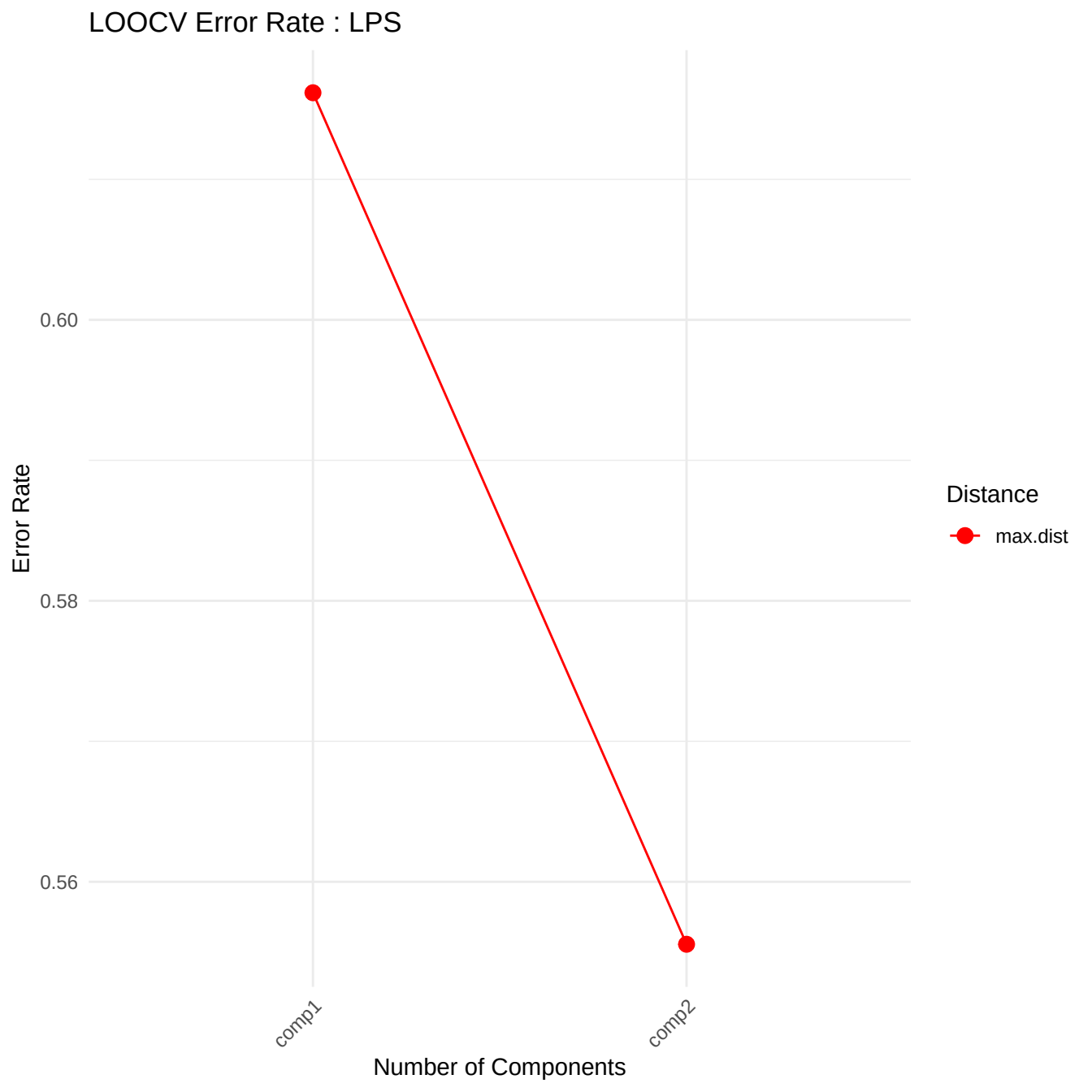

CD3/CD28 (VIP>1) With Accuracy 48 %
X−variate 2: 20% expl. var
X−variate 1: 59% expl. var
3
2
1
0
−1
−2
−3
0
4
8
12
Legend
ND
PreT2D
T2D

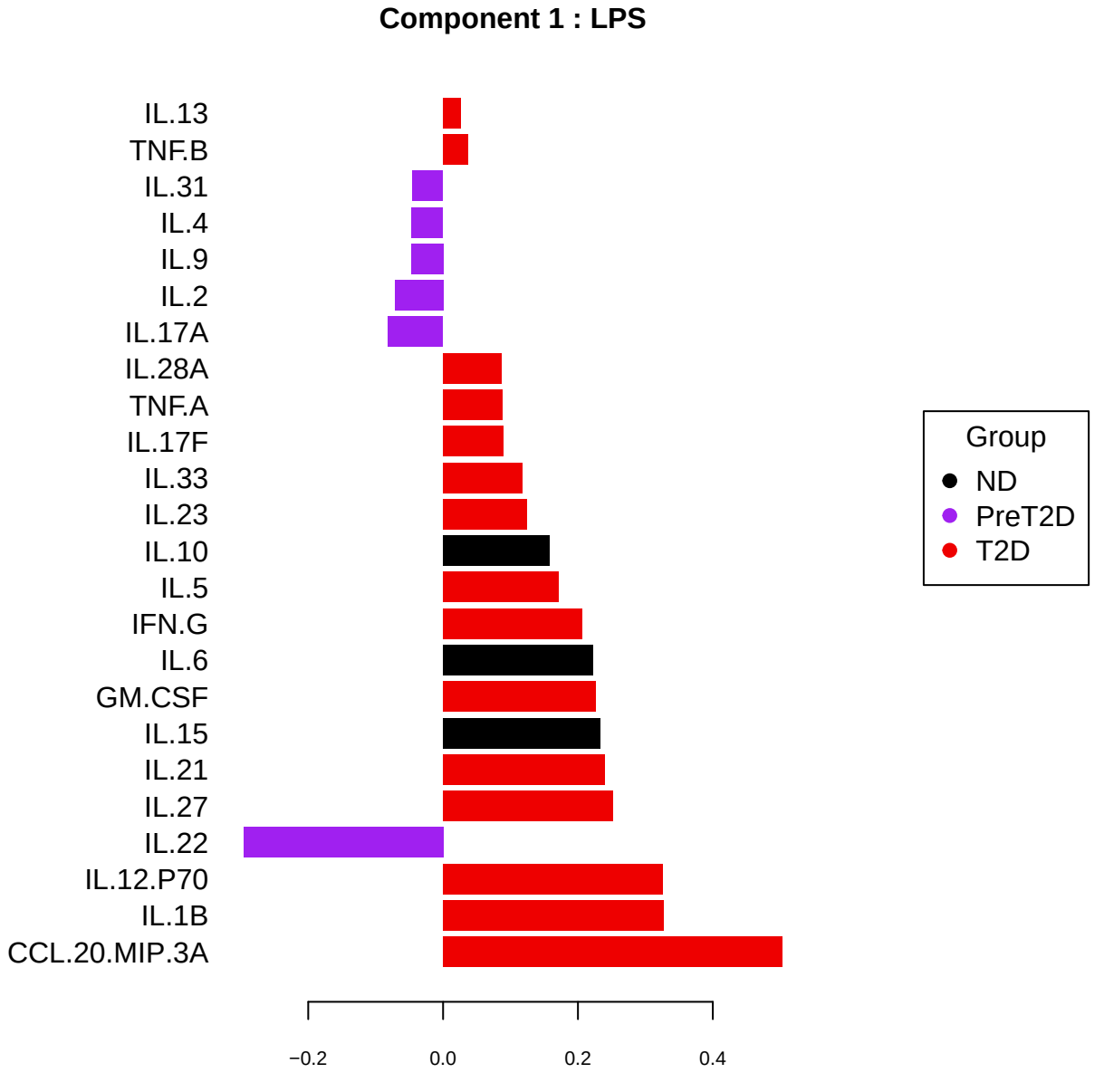

LOOCV Error Rate VIP > 1 : CD3/CD28
0.51
0.50
0.49
Error Rate
comp1
comp2
Number of Components
Distance
max.dist

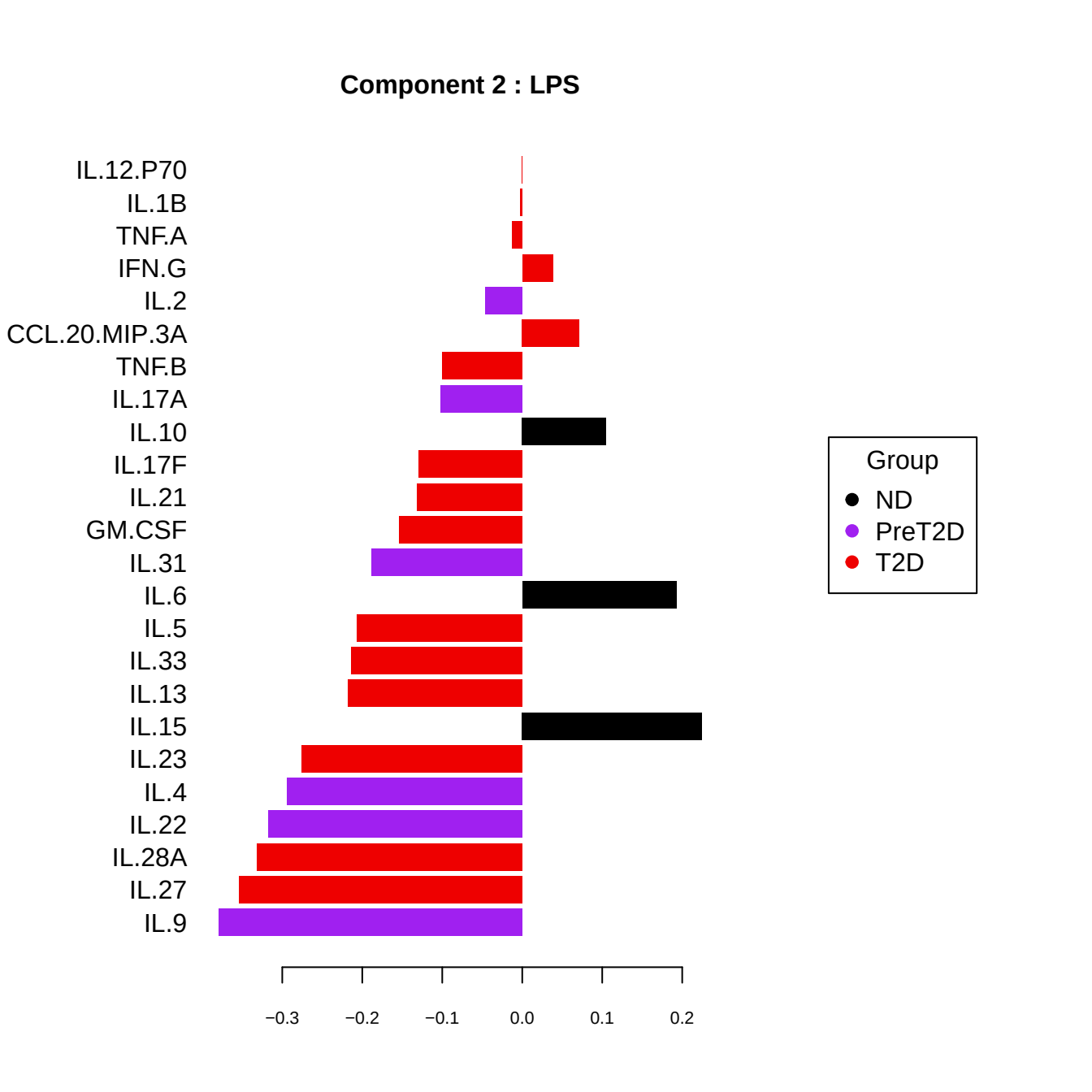

Component 1 : CD3/CD28
IL.2
IL.4
IL.15
IL.1B
CCL.20.MIP.3A
IL.10
IL.12.P70
TNF.A
IL.31
IL.6
IFN.G
−0.3
−0.2
−0.1
0.0
0.1
0.2
0.3
Group
ND
PreT2D
T2D

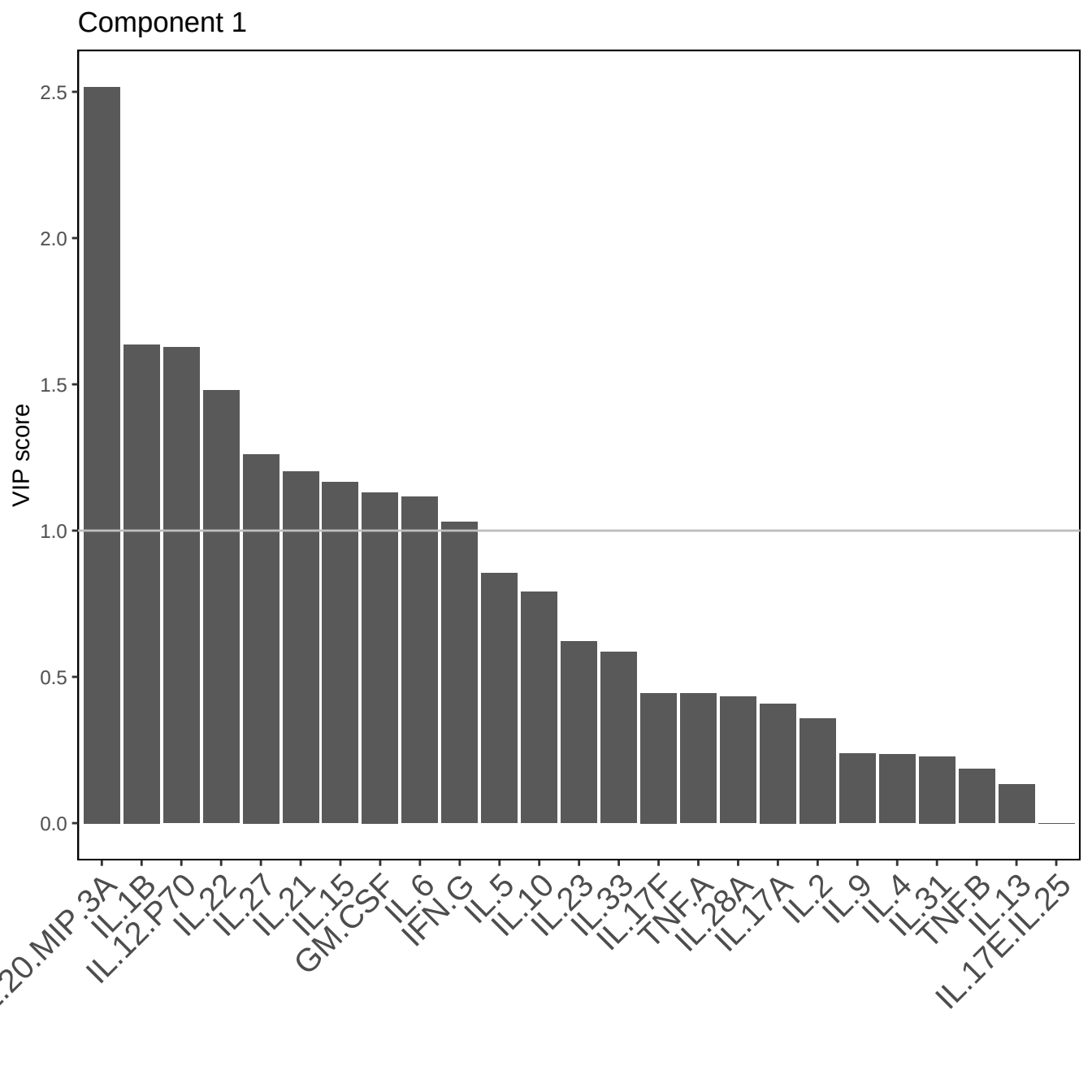

Component 2 : CD3/CD28
IL.12.P70
IFN.G
IL.15
TNF.A
CCL.20.MIP.3A
IL.6
IL.10
IL.2
IL.1B
IL.4
IL.31
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Group
ND
PreT2D
T2D

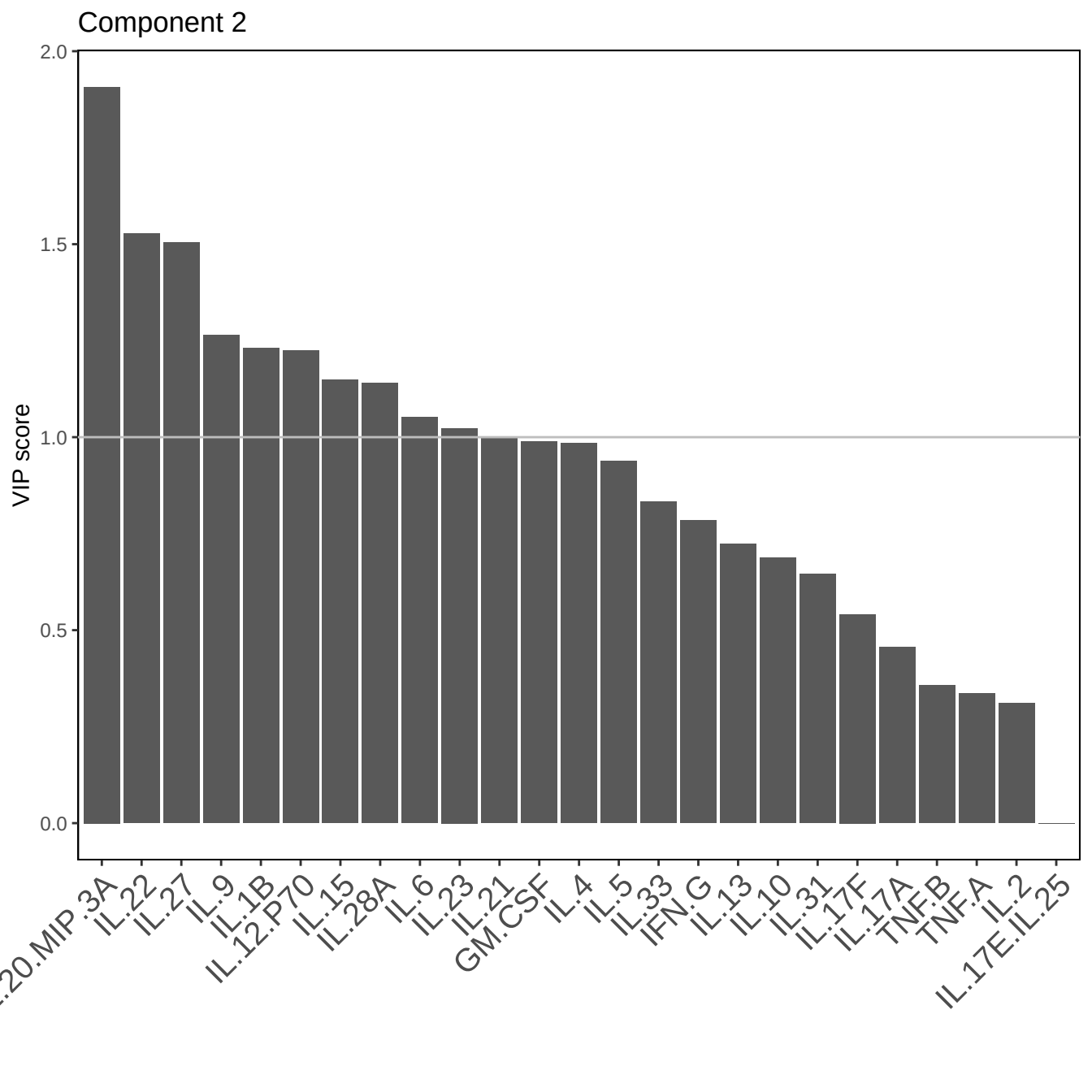

LPS With Accuracy: 43 %
2.5
0.0
−2.5
−5.0
−7.5
X−variate 2: 23% expl. var
−8
−4
0
X−variate 1: 29% expl. var
Legend
ND
PreT2D
T2D

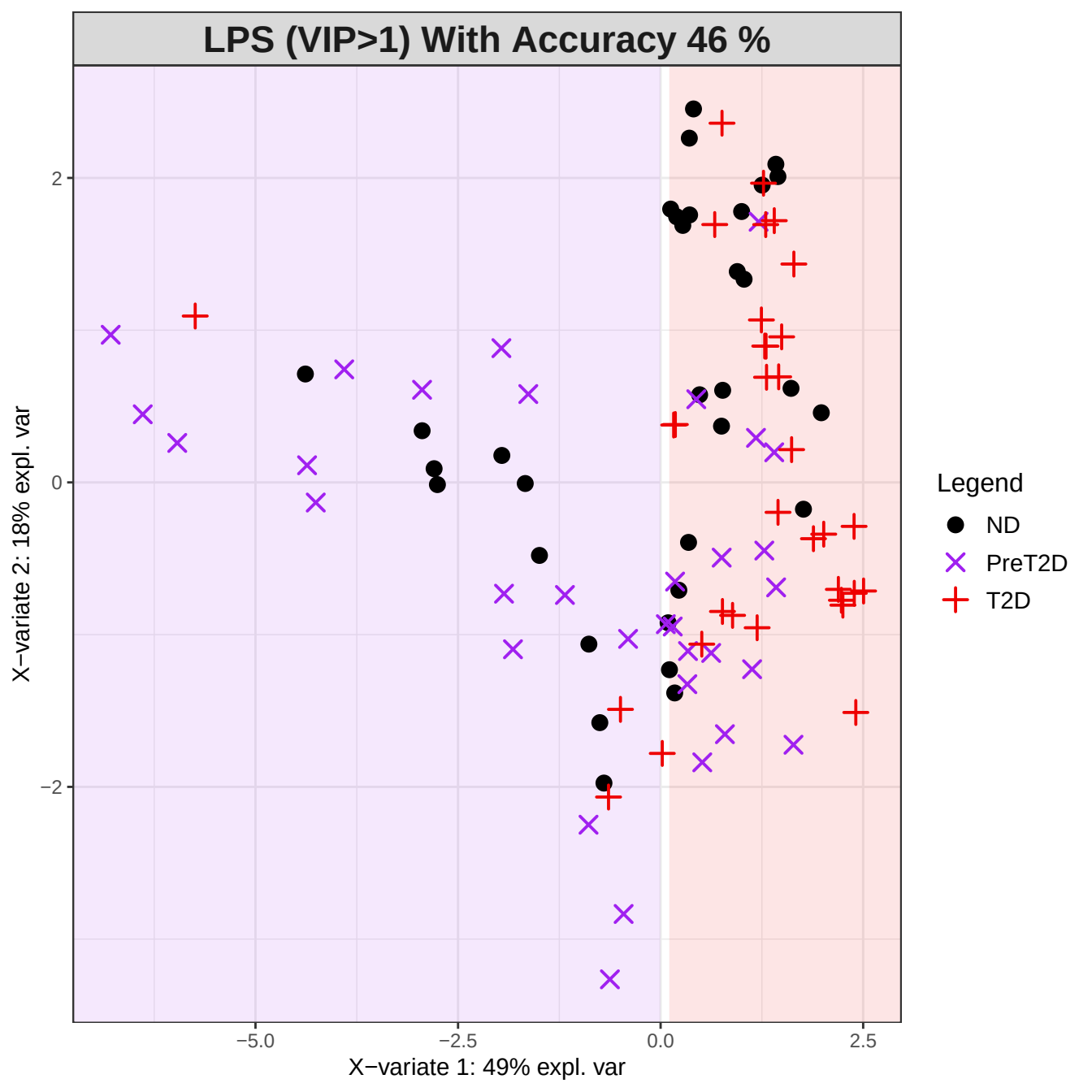

LOOCV Error Rate : LPS
0.60
0.58
0.56
Error Rate
comp1
comp2
Number of Components
Distance
max.dist

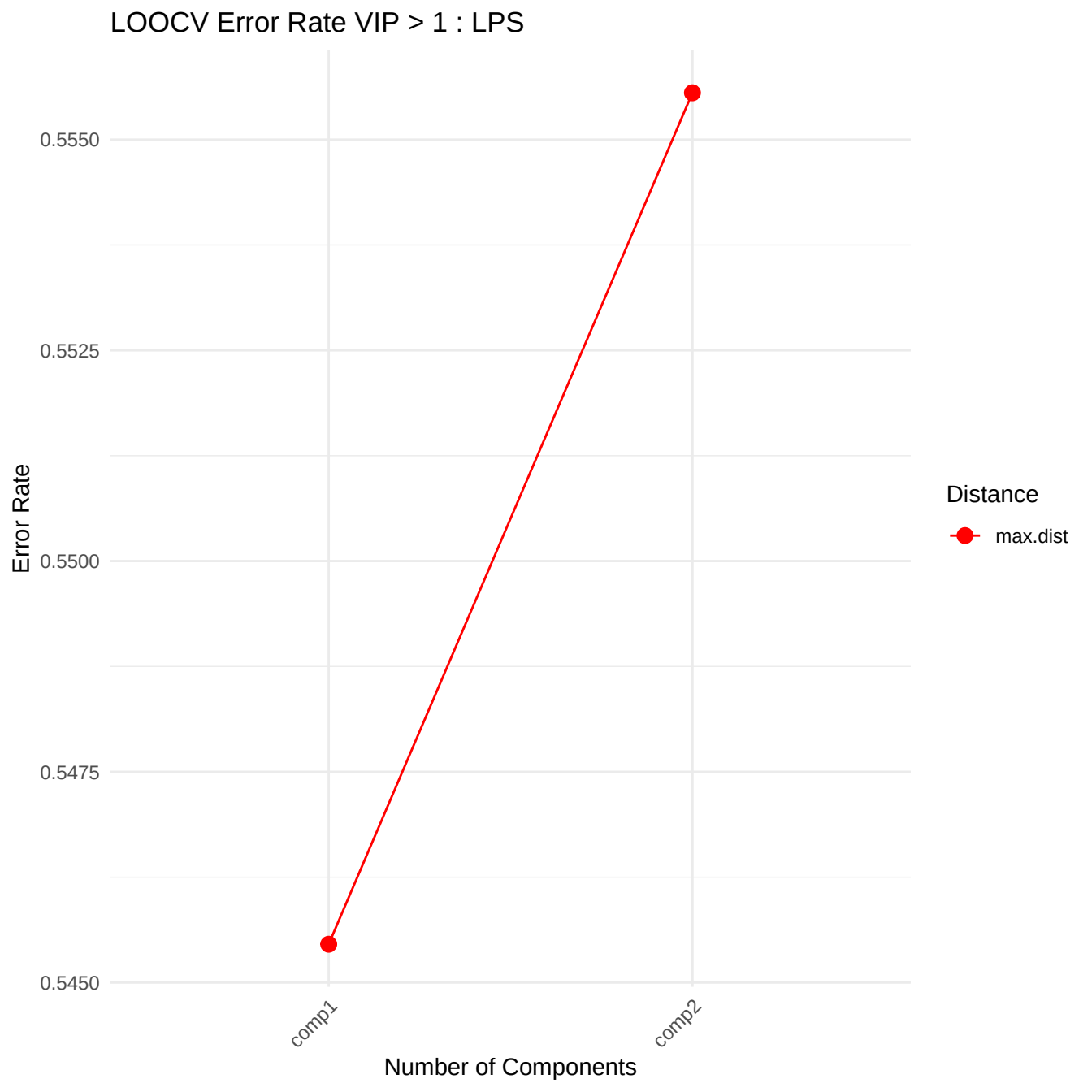

Component 1 : LPS
IL.13
TNF.B
IL.31
IL.4
IL.9
IL.2
IL.17A
IL.28A
TNF.A
IL.17F
IL.33
IL.23
IL.10
IL.5
IFN.G
IL.6
GM.CSF
IL.15
IL.21
IL.27
IL.22
IL.12.P70
IL.1B
CCL.20.MIP.3A
−0.2
0.0
0.2
0.4
Group
ND
PreT2D
T2D

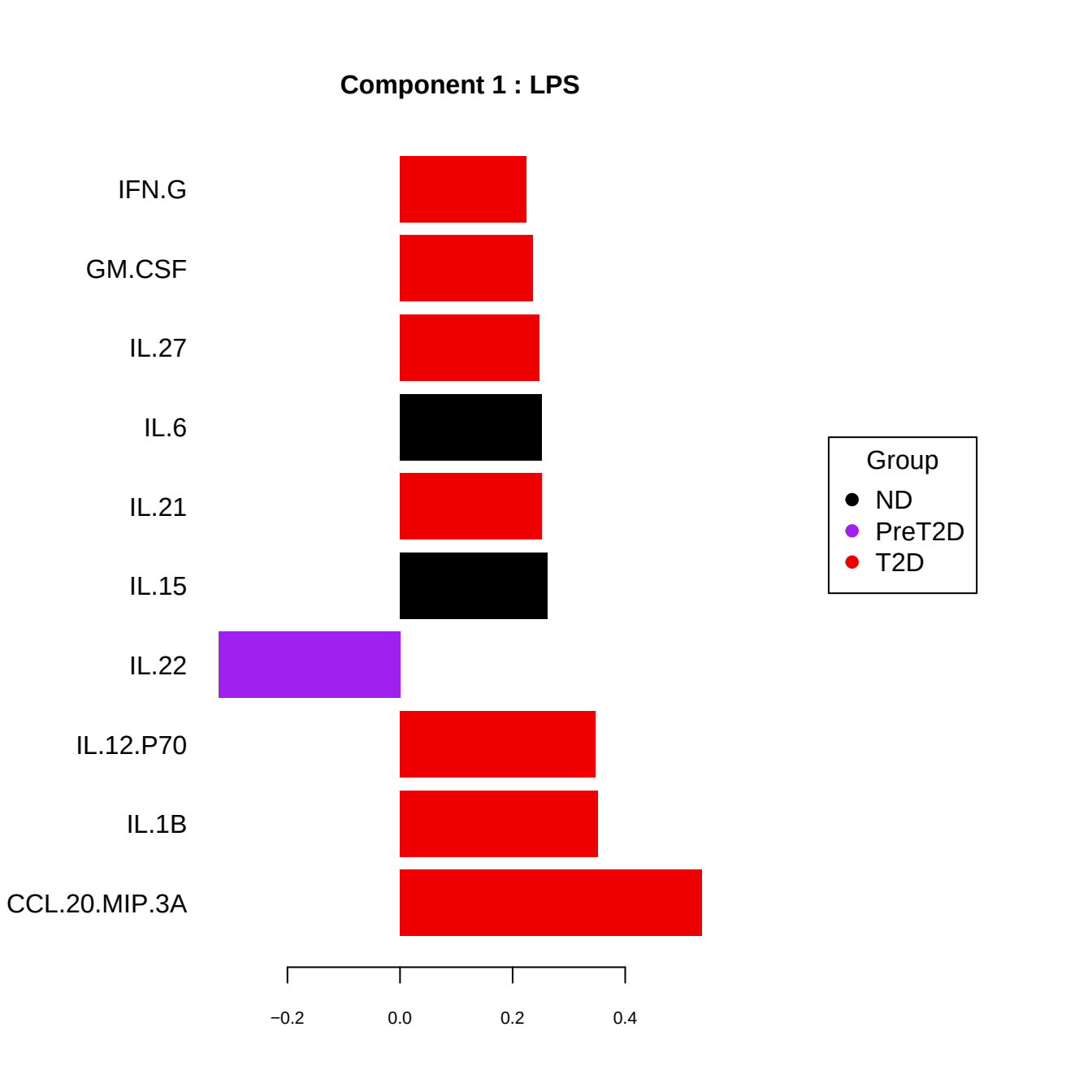

Component 2 : LPS
IL.12.P70
IL.1B
TNF.A
IFN.G
IL.2
CCL.20.MIP.3A
TNF.B
IL.17A
IL.10
IL.17F
IL.21
GM.CSF
IL.31
IL.6
IL.5
IL.33
IL.13
IL.15
IL.23
IL.4
IL.22
IL.28A
IL.27
IL.9
−0.3
−0.2
−0.1
0.0
0.1
0.2
Group
ND
PreT2D
T2D

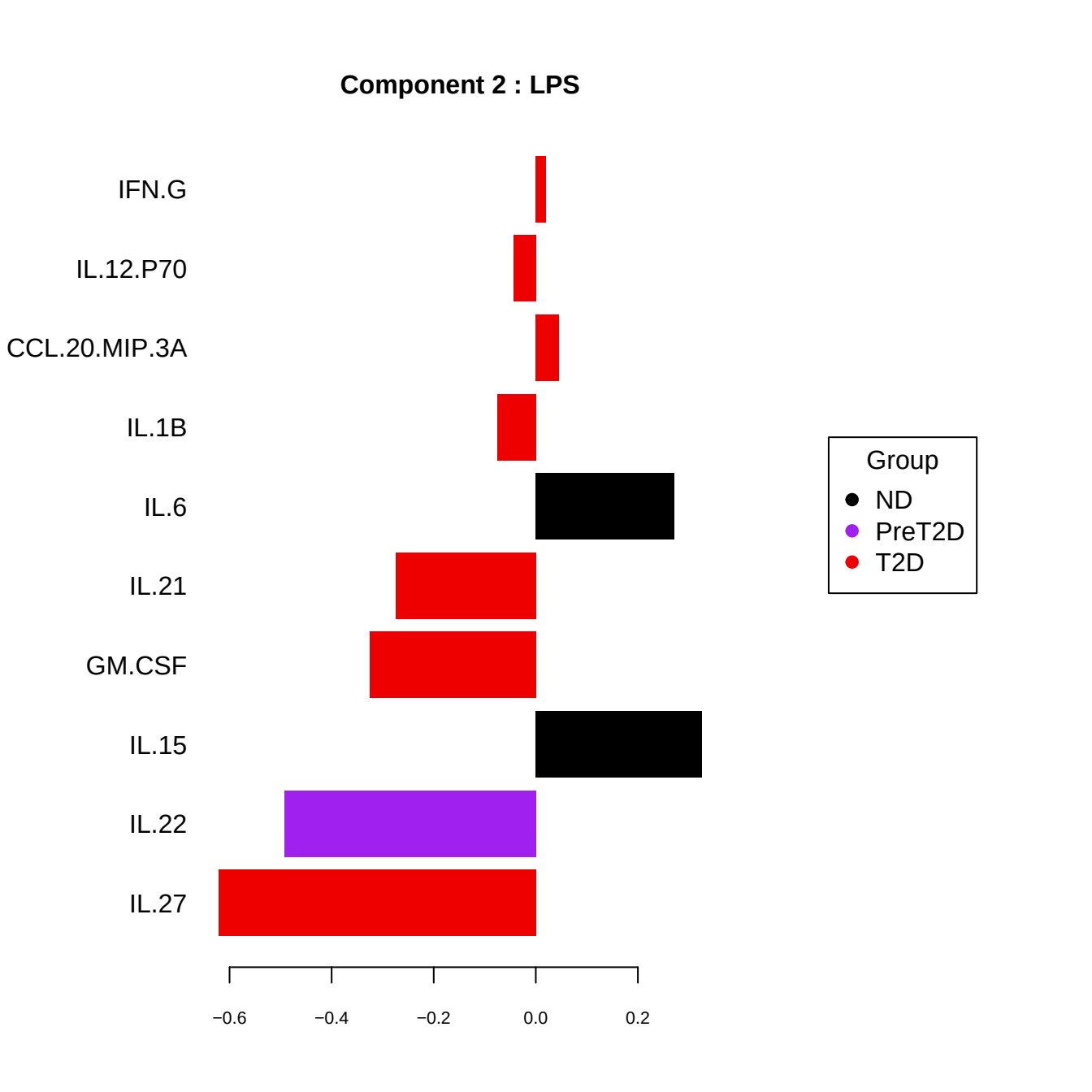

Component 1
VIP score
2.5
2.0
1.5
1.0
0.5
0.0
IL.20.MIP.3A
IL.1B
IL.12.P70
IL.22
IL.27
IL.21
IL.15
GM.CSF
IL.6
IFN.G
IL.5
IL.10
IL.23
IL.33
IL.17F
TNF.A
IL.28A
IL.17A
IL.2
IL.9
IL.4
IL.31
TNF.B
IL.13
IL.17E.IL.25

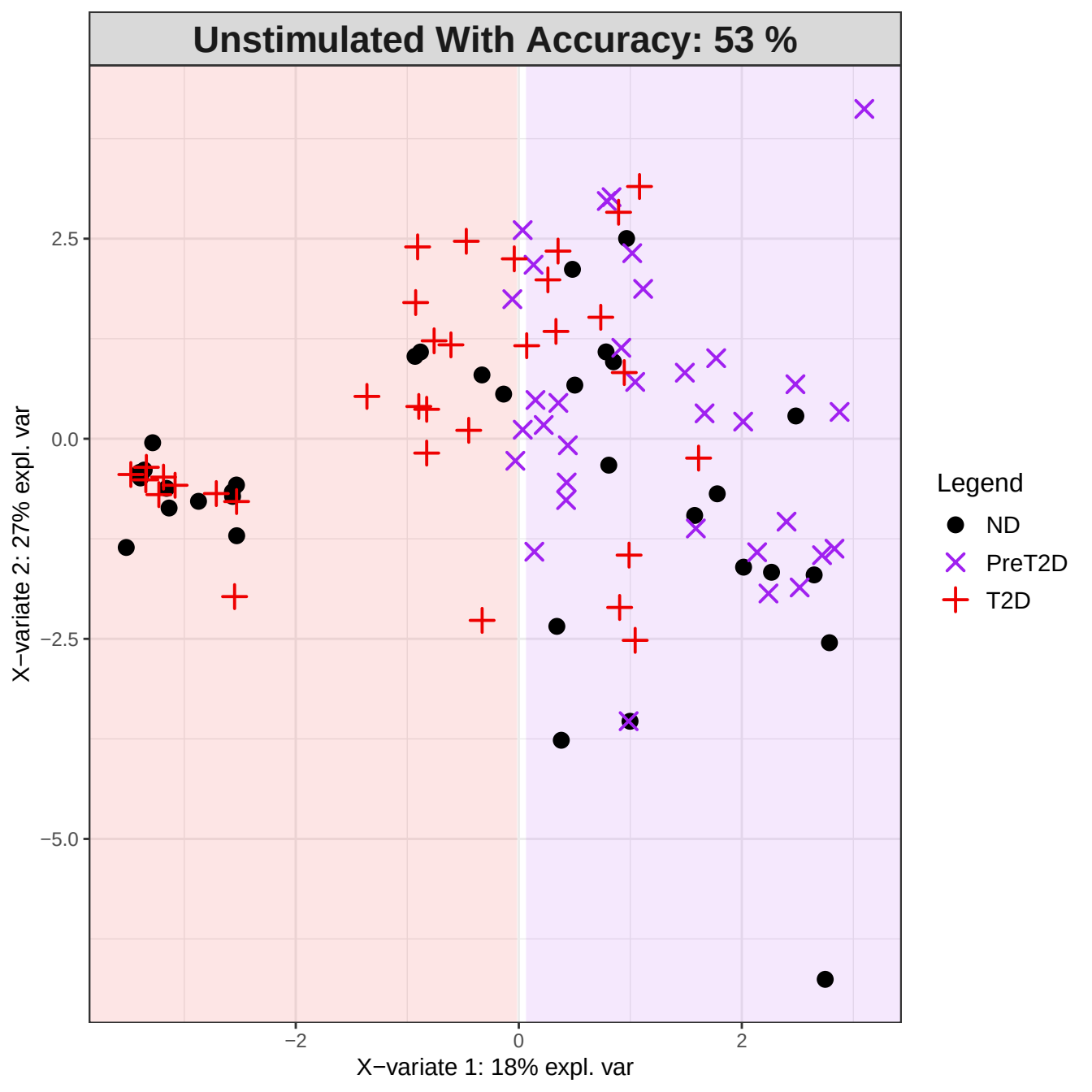

Component 2
VIP score
2.0
1.5
1.0
0.5
0.0
L.20.MIP.3A
IL.22
IL.27
IL.9
IL.1B
IL.12.P70
IL.15
IL.28A
IL.6
IL.23
IL.21
GM.CSF
IL.4
IL.5
IL.33
IFN.G
IL.13
IL.10
IL.31
IL.17F
IL.17A
TNF.B
TNF.A
IL.2
IL.17E.IL.25

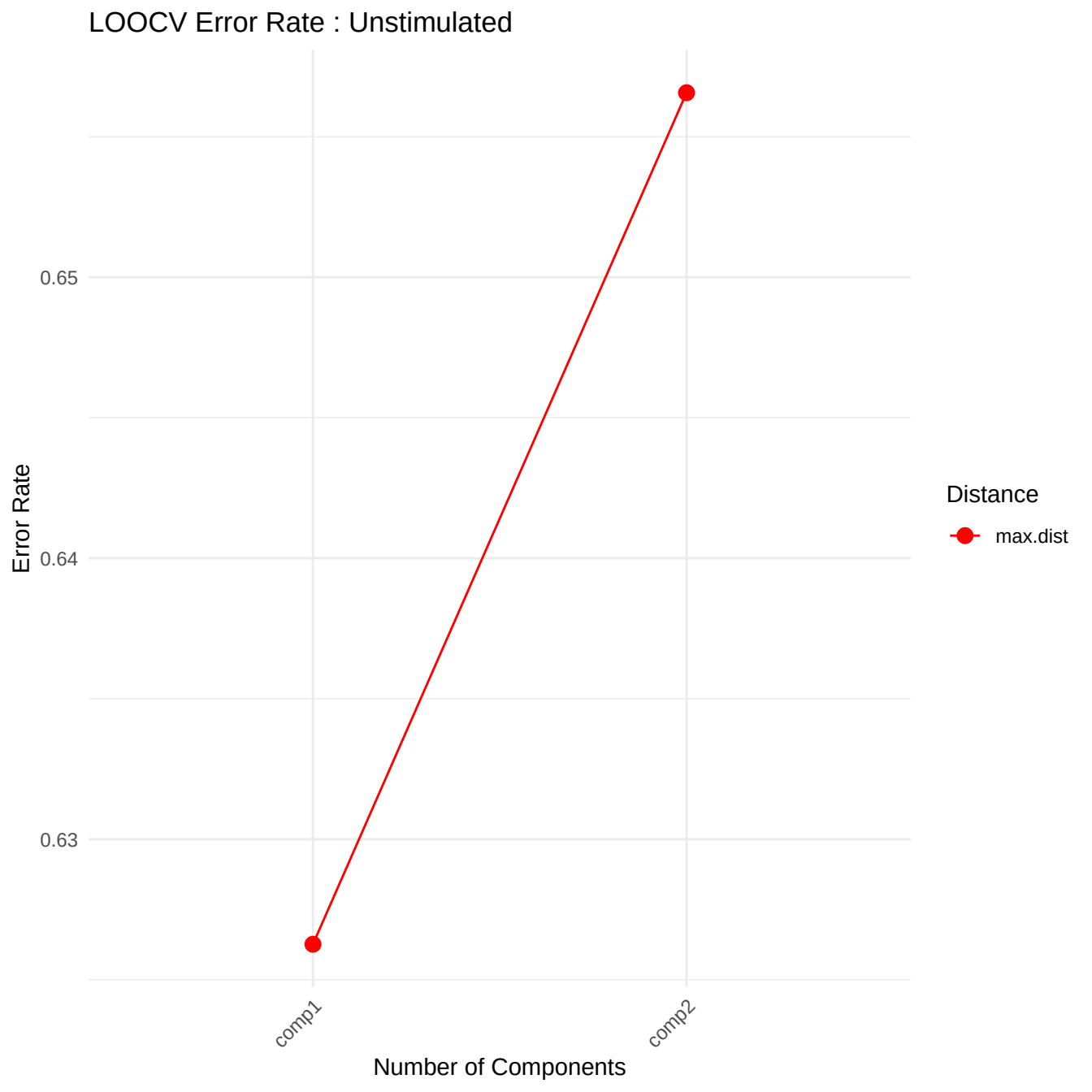

LPS (VIP>1) With Accuracy 46 %
2
0
−2
−5.0
−2.5
0.0
2.5
X−variate 2: 18% expl. var
X−variate 1: 49% expl. var
Legend
ND
PreT2D
T2D

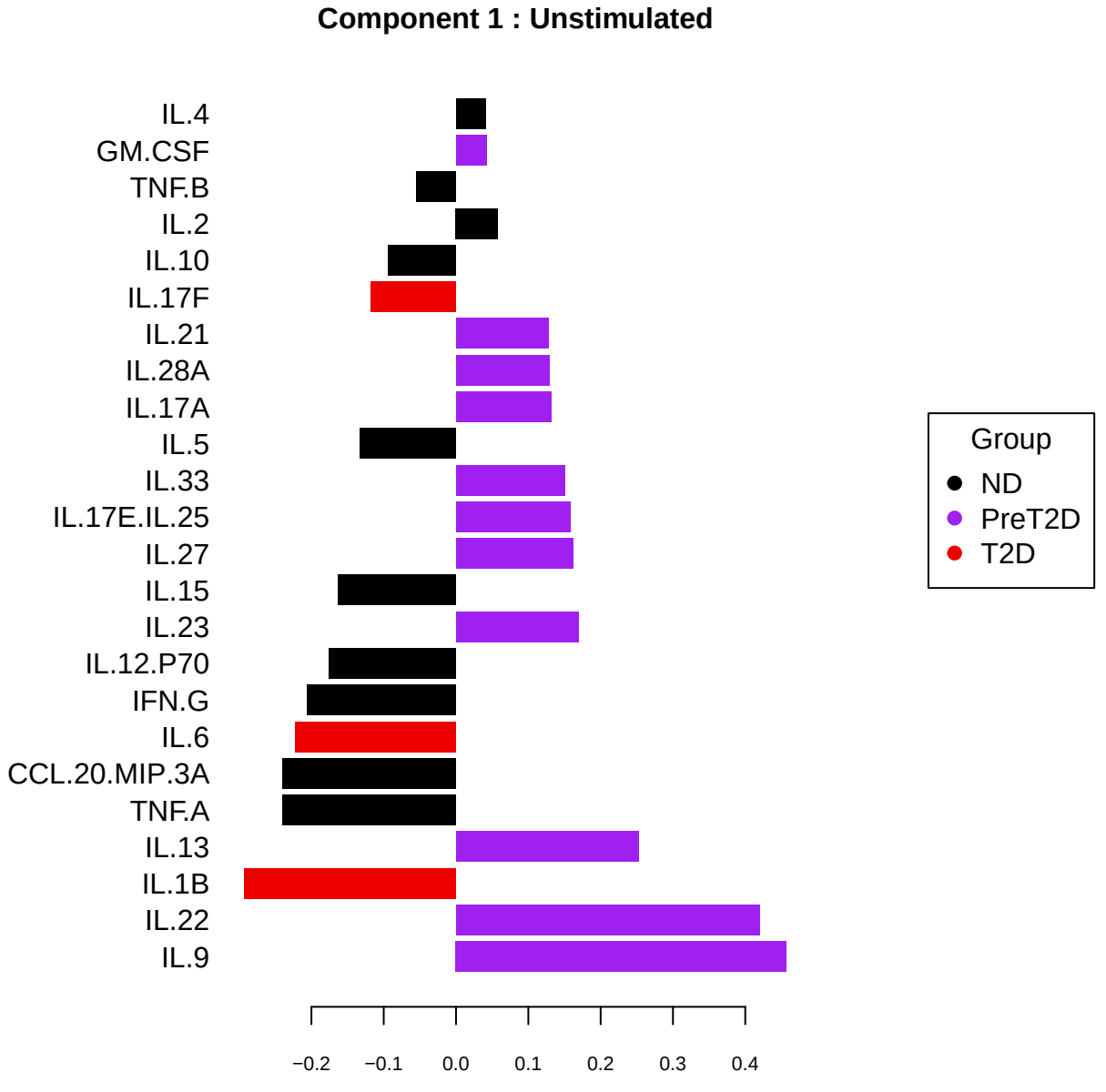

LOOCV Error Rate VIP > 1 : LPS
0.5550
0.5525
0.5500
0.5475
0.5450
Error Rate
comp1
comp2
Number of Components
Distance
max.dist

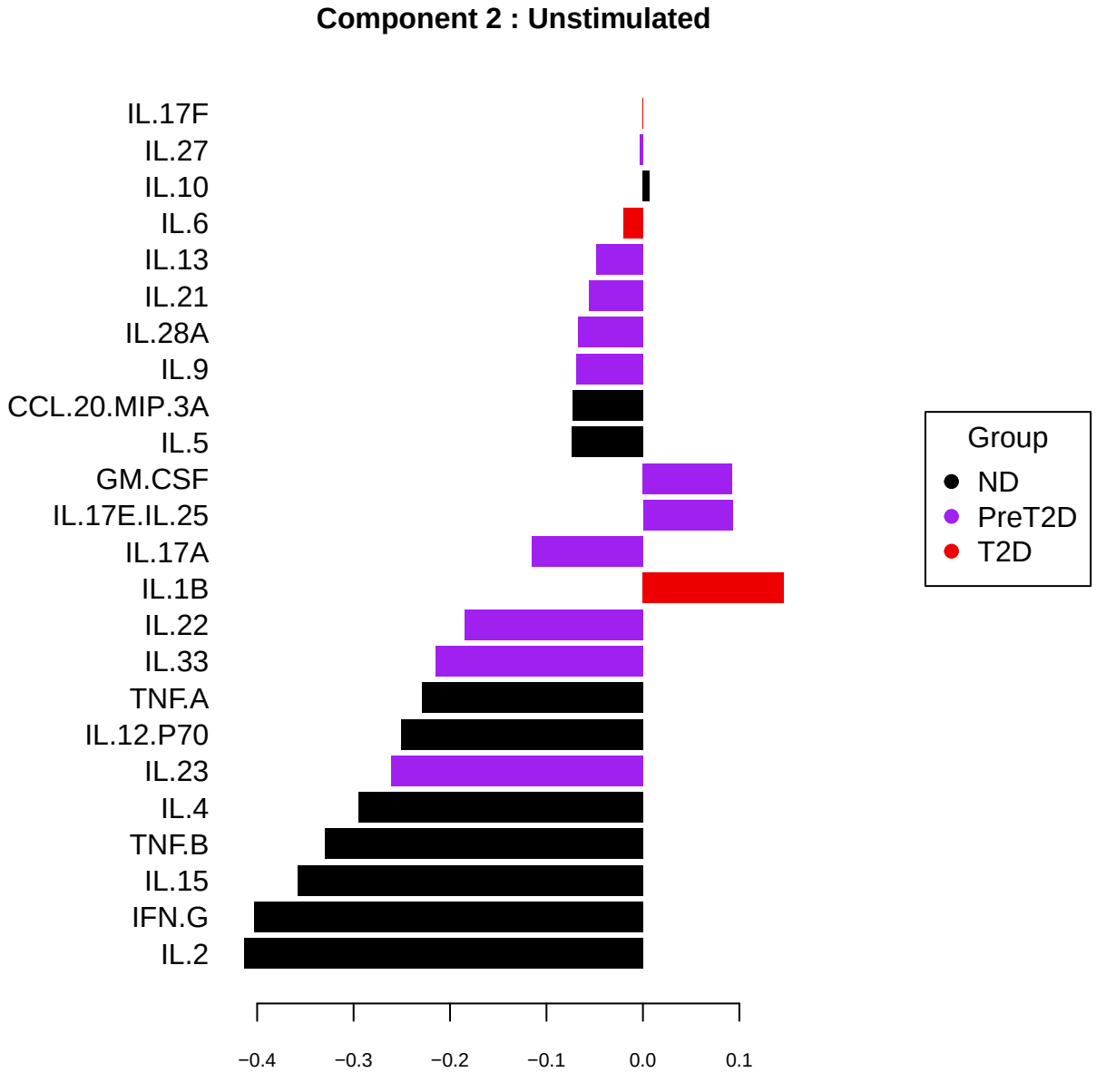

Component 1 : LPS
IFN.G
GM.CSF
IL.27
IL.6
IL.21
IL.15
IL.22
IL.12.P70
IL.1B
CCL.20.MIP.3A
−0.2
0.0
0.2
0.4
Group
ND
PreT2D
T2D

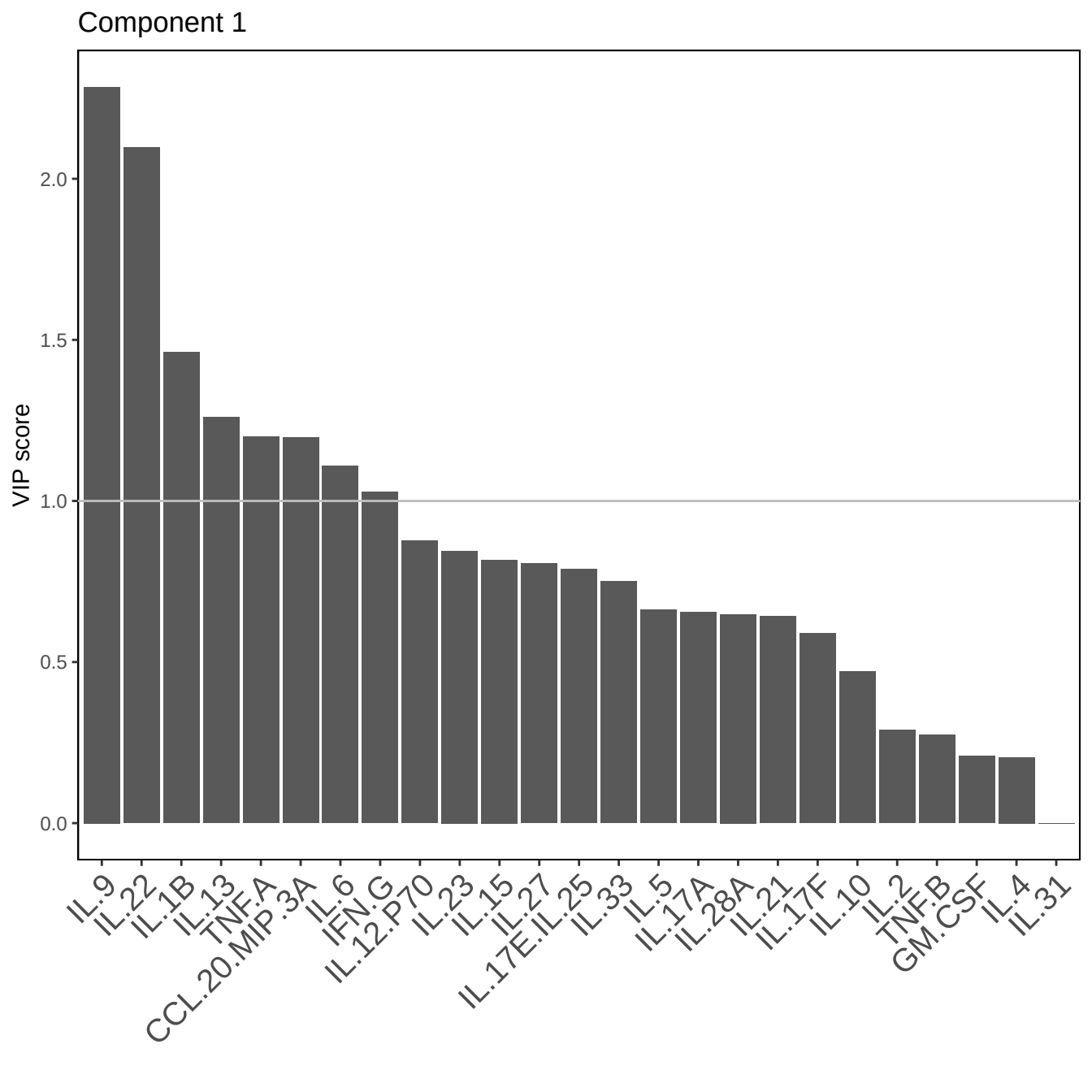

Component 2 : LPS
IFN.G
IL.12.P70
CCL.20.MIP.3A
IL.1B
IL.6
IL.21
GM.CSF
IL.15
IL.22
IL.27
−0.6
−0.4
−0.2
0.0
0.2
Group
ND
PreT2D
T2D

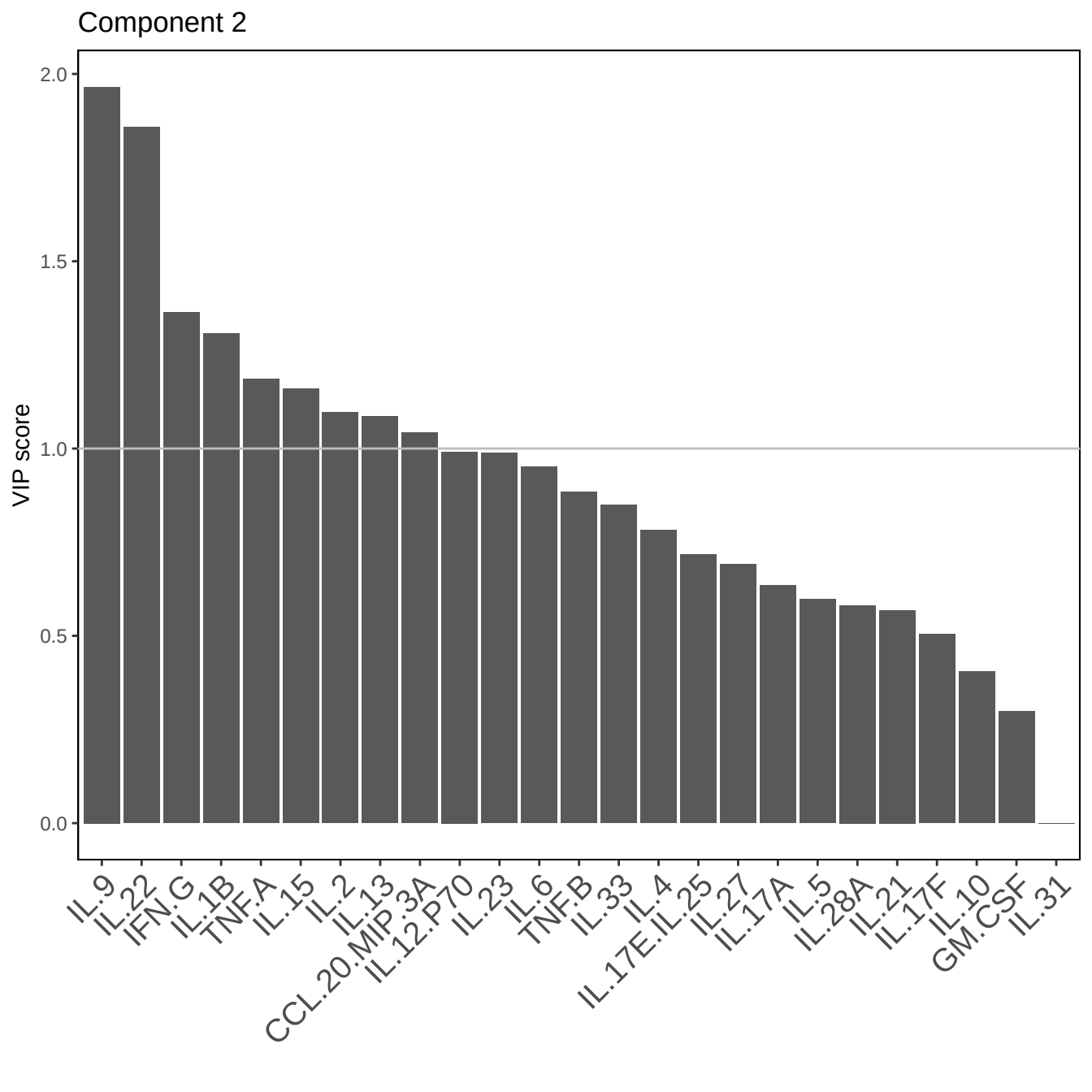

Unstimulated With Accuracy: 53 %
X−variate 2: 27% expl. var
X−variate 1: 18% expl. var
2.5
0.0
−2.5
−5.0
−2
0
2
Legend
ND
PreT2D
T2D

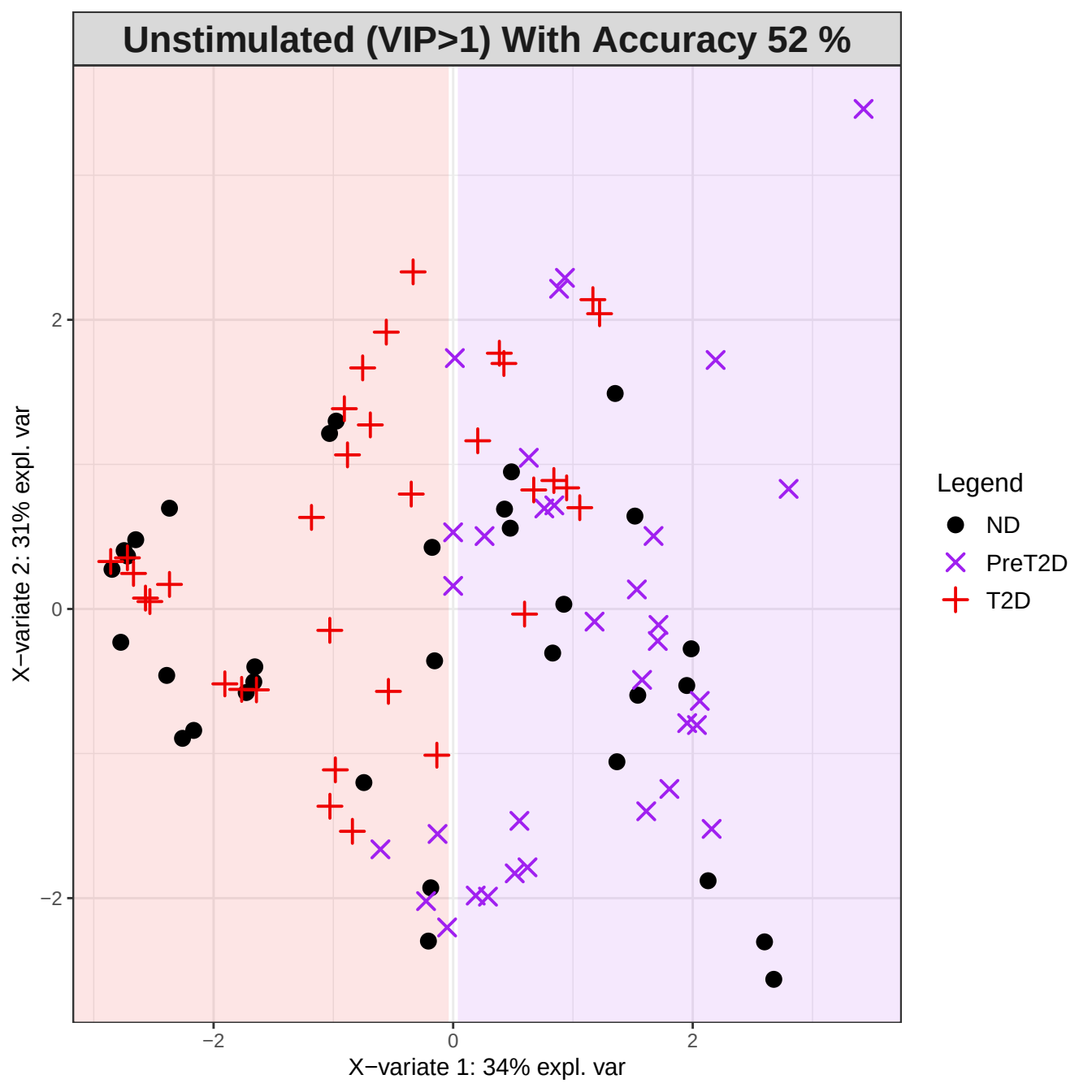

LOOCV Error Rate : Unstimulated
0.65
0.64
0.63
Error Rate
comp1
comp2
Number of Components
Distance
max.dist

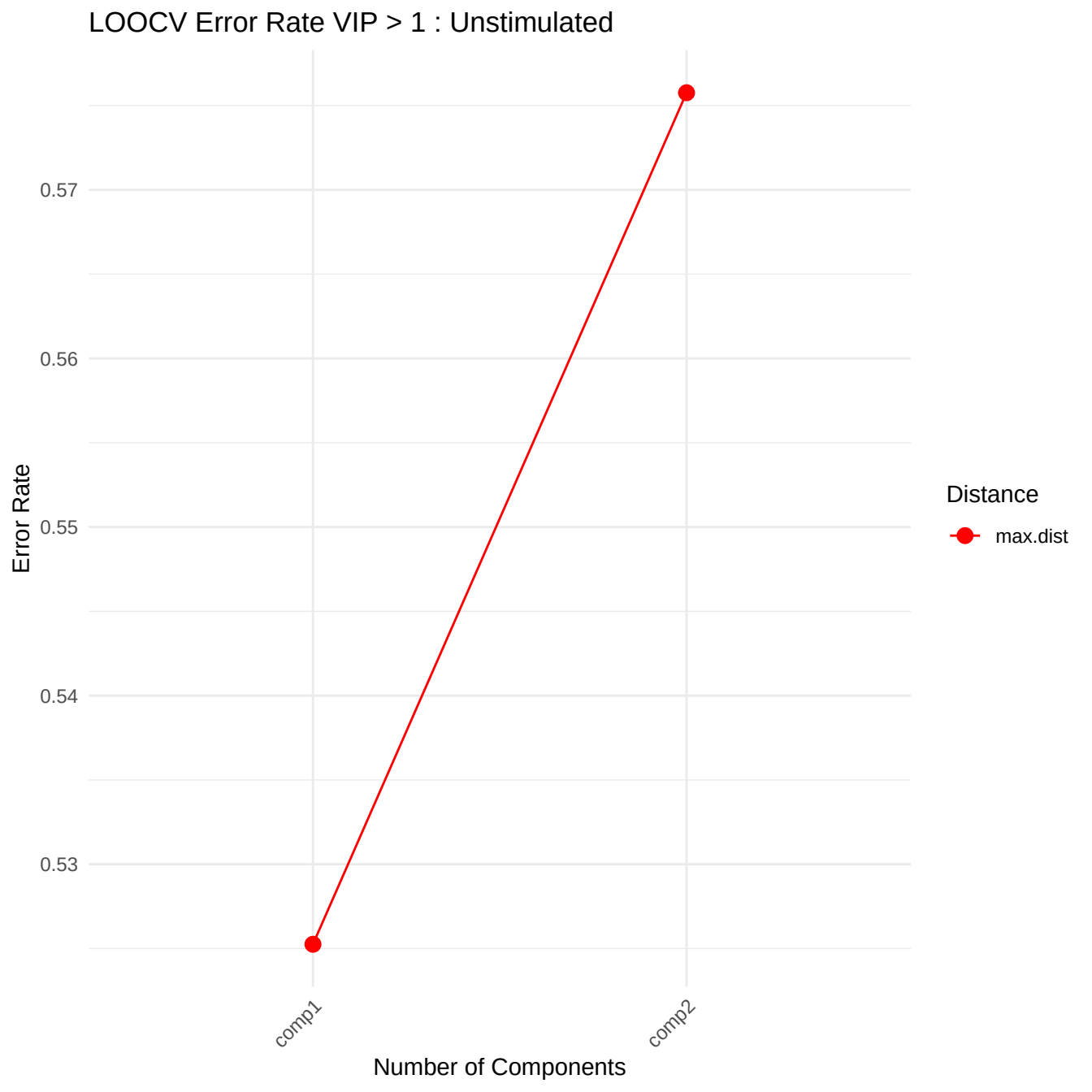

Component 1 : Unstimulated
IL.4
GM.CSF
TNF.B
IL.2
IL.10
IL.17F
IL.21
IL.28A
IL.17A
IL.5
IL.33
IL.17E.IL.25
IL.27
IL.15
IL.23
IL.12.P70
IFN.G
IL.6
CCL.20.MIP.3A
TNF.A
IL.13
IL.1B
IL.22
IL.9
−0.2
−0.1
0.0
0.1
0.2
0.3
0.4
Group
ND
PreT2D
T2D

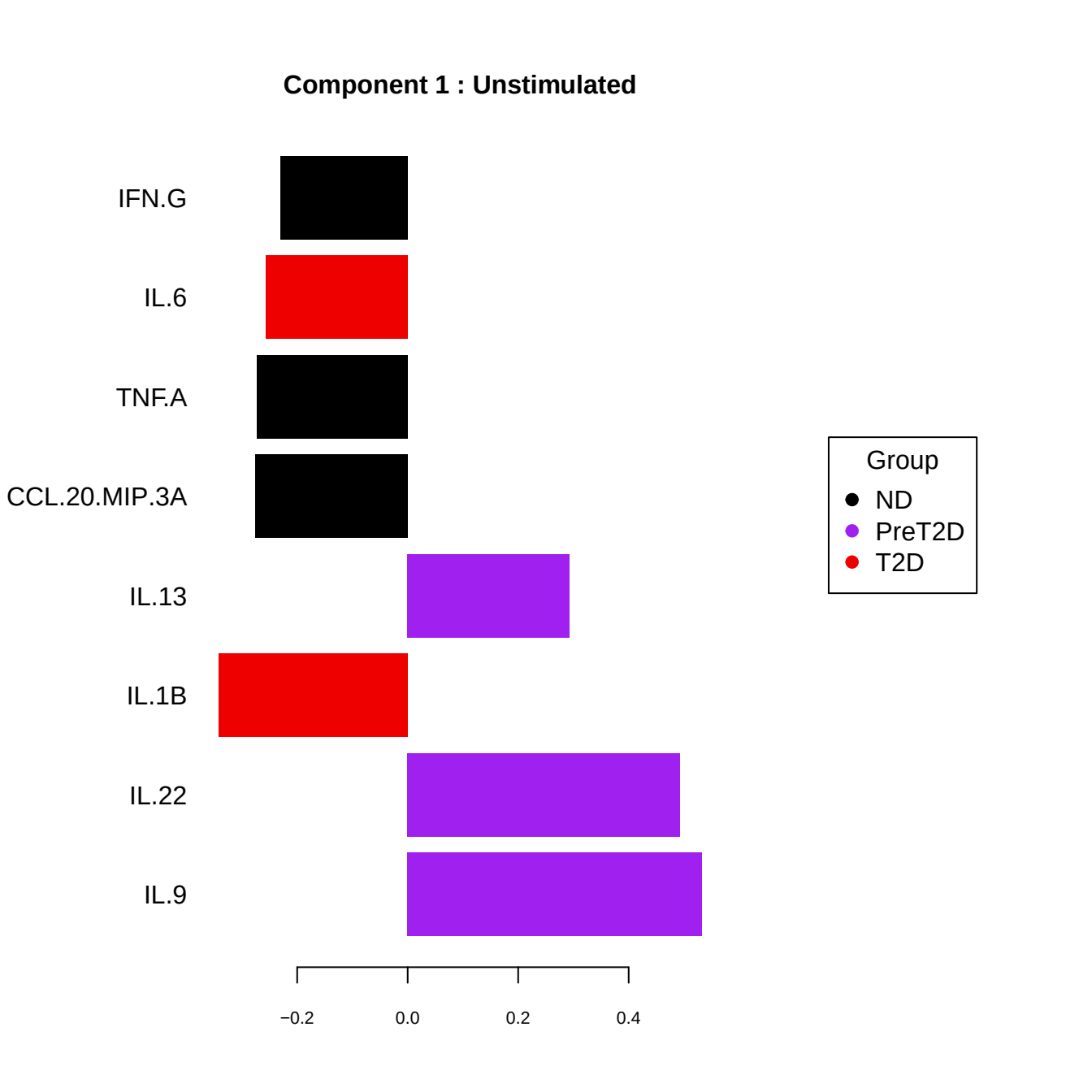

Component 2 : Unstimulated
IL.17F
IL.27
IL.10
IL.6
IL.13
IL.21
IL.28A
IL.9
CCL.20.MIP.3A
IL.5
GM.CSF
IL.17E.IL.25
IL.17A
IL.1B
IL.22
IL.33
TNF.A
IL.12.P70
IL.23
IL.4
TNF.B
IL.15
IFN.G
IL.2
−0.4
−0.3
−0.2
−0.1
0.0
0.1
Group
ND
PreT2D
T2D

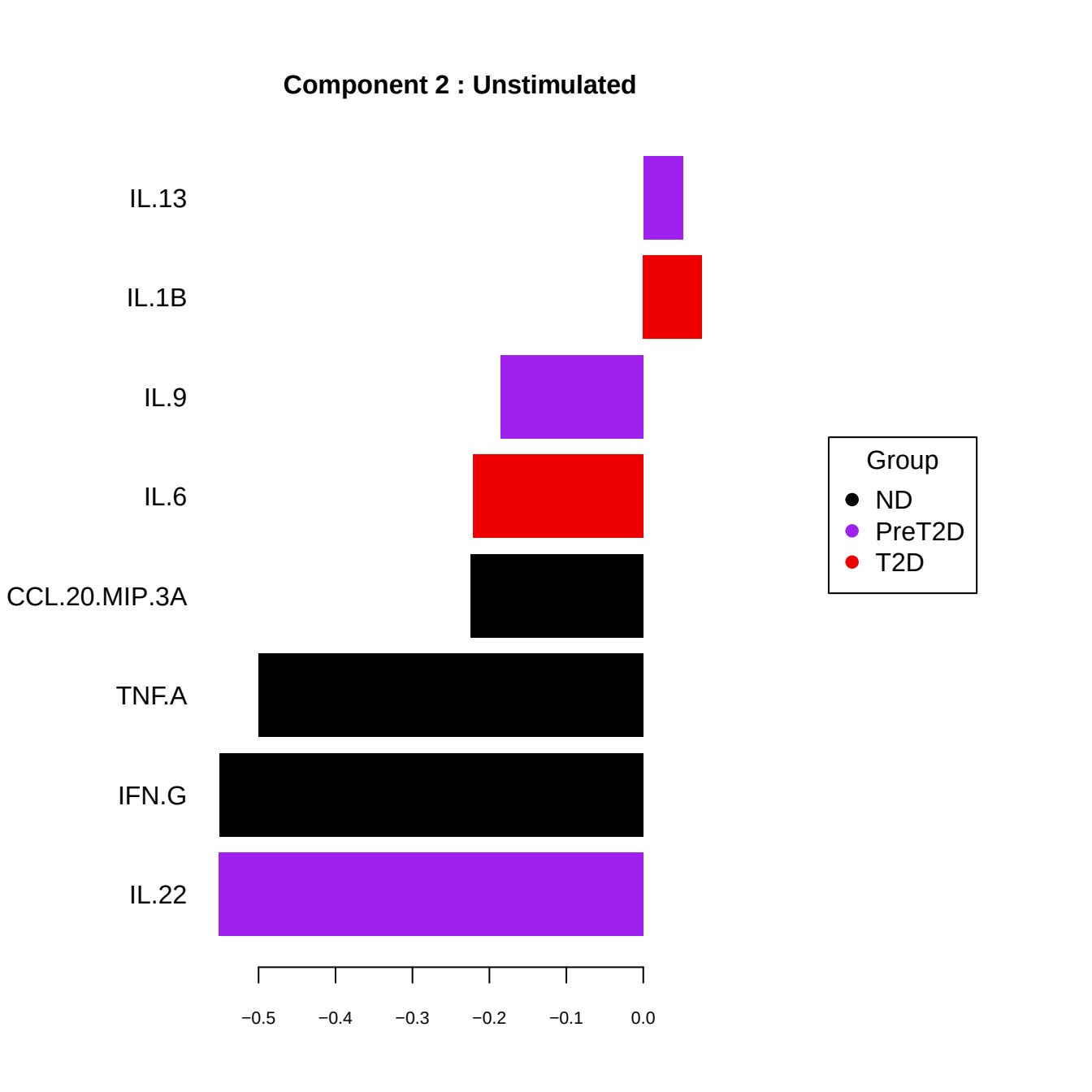

Component 1
VIP score
2.0
1.5
1.0
0.5
0.0
IL.9
IL.22
IL.1B
IL.13
TNF.A
CCL.20.MIP.3A
IL.6
IFN.G
IL.12.P70
IL.23
IL.15
IL.27
IL.17E.IL.25
IL.33
IL.5
IL.17A
IL.28A
IL.21
IL.17F
IL.10
IL.2
TNF.B
GM.CSF
IL.4
IL.31


Component 2
VIP score
2.0
1.5
1.0
0.5
0.0
IL.9
IL.22
IFN.G
IL.1B
TNF.A
IL.15
IL.2
IL.13
CCL.20.MIP.3A
IL.12.P70
IL.23
IL.6
TNF.B
IL.33
IL.4
IL.17E.IL.25
IL.27
IL.17A
IL.5
IL.28A
IL.21
IL.17F
IL.10
GM.CSF
IL.31


Unstimulated (VIP>1) With Accuracy 52 %
X−variate 2: 31% expl. var
X−variate 1: 34% expl. var
2
0
−2
−2
0
2
Legend
ND
PreT2D
T2D


LOOCV Error Rate VIP > 1 : Unstimulated
0.57
0.56
0.55
0.54
0.53
Error Rate
comp1
comp2
Number of Components
Distance
max.dist


Component 1 : Unstimulated
IFN.G
IL.6
TNF.A
CCL.20.MIP.3A
IL.13
IL.1B
IL.22
IL.9
−0.2
0.0
0.2
0.4
Group
ND
PreT2D
T2D


Component 2 : Unstimulated
IL.13
IL.1B
IL.9
IL.6
CCL.20.MIP.3A
TNF.A
IFN.G
IL.22
−0.5
−0.4
−0.3
−0.2
−0.1
0.0
Group
ND
PreT2D
T2D