Microglia Marker Genes:

**All of the genes in this red color were not tested for/included in the large matrix (data set)**

1. **Iba 1**
2. **CD11b**
3. **CD45**
4. **Fcrls**
5. **Siglech**
6. **Gpr165**
7. **Ki-M1P**
8. **HLA-DR**
9. **EBM 11**
10. **C1ra**
11. **Ccl12**
12. **Csfl**
13. **Gbp8**
14. **H2-Aa → only in mice**
15. **H2-Ab1→ only in mice**
16. **H2-D1→ only in mice**
17. **H2-Eb1→ only in mice**
18. **H2-K1→ only in mice**
19. **H2-T23→ only in mice**
20. **Iigp1**
21. **I112rb1**
22. **Irgm2**
23. **Oas11**
24. **tgal**

**The following genes in black were included in the datasets from** <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE119926>

**Sparc**

**P2ry12**

**TMEM119 ← most widely recognized microglia marker**

**Slc2a5**

**Sall 1**

**Ecscr**

**Scamp5**

**Ptprm**

**Kcnd1**

**Sdk1**

**Clstn1**

**Sgce**

**Slc12a2**

**Cadm1**

**Sema4g**

**Pros1**

**Slco2b1**

**Rtn4rl1**

**Cmtm4**

**Fat3**

**Smo**

**Mrc2**

**Jam2**

**Plxna4**

**Slc46a1**

**Agmo**

**Tmem204**

**Bst2**

**C2**

**C4b**

**Cd74**

**Cfb**

**Ciita**

**Ctsc**

**Exo1**

**Gbp2**

**Ifnb1**

**Irf1**

**Itk**

**Jak3**

**Ly86**

**Masp1**

**Oas2**

**P2ry14**

**Sema4a**

**Serping1**

**Stat1**

**Tlr2**

**Tlr3**

**Tnf**

**Tnfsf10**

**Tnfsf13b**

**Tnfsf15**

**Tnfsf8**

The data was procured from:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE119926>

Total samples available: 36

Of the 36: 25 MB patient samples, 11 patient derived xenograft models

Of the 25 MB patients: 23 diagnostic samples and 2 recurrences

For the sake of maintaining similar conditions across trials:

All samples used will be diagnostic MB patient samples:

SHH:

1. MUV41 → Male 4 years old (SHH-infant): <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905417>
2. SJ454 → Male 3 years old (SHH-infant): <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905423>
3. SJ577 → Male 13 years old (SHH-adult): <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905425>

WNT:

1. BCH807 → Male 12 years old: <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905406>
2. MUV44 → Male 9 years old:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905418>

1. SJ99 → Male 17 years old:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905420>

G3:

1. BCH825 → Male 8 years old: <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905407>
2. MUV11 → Male 6 years old: <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905410>
3. MUV29 → Female 4 years old: <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905413>

G4:

1. BCH1031 → Male 12 years old: <https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905408>
2. MUV19 → Male 16 years old:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905411>

1. MUV27 → Female 7 years old:

<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSM3905412>