

Table S3. Six Key Driver Analyses (KDA) genes that remains significant after correction for multiple testing

Key Driver	<i>P</i>	Corrected-<i>P</i>	q-value	Hits*
CXCR3	3.27E-10	1.17E-06	3.28E-04	16
CCL2	8.71E-07	3.10E-03	3.28E-04	13
CXCL2	3.00E-06	1.07E-02	3.28E-04	10
SOCS3	1.95E-05	6.93E-02	1.72E-03	12
IL1B	6.78E-05	2.42E-01	4.13E-03	6
CD200R1	9.98E-05	3.56E-01	4.59E-03	5

* Hits is the number of gene that are from the canonical list that are also three edges away from the Key Driver gene