**Table S2: Genotype frequencies and comparison of proportions between outcome groups**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   |   |   |   |   |   |   |   |
|   | **Gene** | **SNP** | **MAF** | **H-W p** | **PPI-R (57)** | **PPI-nR (35)** | **p-value\*** |   |
|   | ***CYP2C19*** | rs4244285 (\*2) | 0.179 | 0.477 | 36/20/1 | 27/5/3 | **0.036** |   |
|   | rs4986893 (\*3) | 0 | 1 | 57/0/0 | 35/0/0 | 1 |   |
|   | rs41291556 (\*8) | 0 | 1 | 57/0/0 | 35/0/0 | 1 |   |
|   | rs17884712 (\*9) | 0 | 1 | 57/0/0 | 35/0/0 | 1 |   |
|   | rs12248560 (\*17) | 0.168 | 1 | 41/15/1 | 22/12/1 | 0.613 |   |
|   | ***STAT6*** | rs105951334,37 | 0.12 | 0.609 | 40/16/1 | 32/2/1 | **0.015** |   |
|   | rs32401534,35 | 0.223 | 1 | 33/22/2 | 22/11/2 | 0.698 |   |
|   | rs302497438 | 0.06 | 1 | 53/4/0 | 28/7/0 | 0.096 |   |
|   | rs84171840 | 0.364 | 0.658 | 22/29/6 | 14/16/5 | 0.83 |   |
|   | rs32401135 | 0.418 | 0.283 | 19/31/7 | 9/20/6 | 0.657 |   |
|   | rs16776932,33 | 0.38 | 0.38 | 21/30/6 | 12/18/5 | 0.908 |   |
|   | rs259848336 | 0.13 | 1 | 43/14/0 | 26/8/1 | 0.575 |   |
|   | rs1236867239 | 0.386 | 0.516 | 20/30/7 | 13/17/5 | 0.913 |   |

Abbreviations: MAF, minor allele frequency; H-W p, Hardy Weinberg p-value; PPI-R, PPI responsive esophageal eosinophilia; PPI-nR, PPI nonresponsive eosinophilic esophagitis.

\*Reported p-value value is for Fishers Exact test, 2-sided, without correction for multiple testing.

References are as listed in the manuscript.