

# Exacerbation of allergic rhinitis by the commensal bacterium *Streptococcus salivarius*

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**Supporting Table 1. Oligonucleotides used in this study.**

| Name                                            | Sequence (5'-3')              |
|-------------------------------------------------|-------------------------------|
| <i>For gene expression analysis by qRT-PCR</i>  |                               |
| mouse GAPDH -F                                  | AGGTCGGTGTGAACGGATTTG         |
| mouse GAPDH -R                                  | TGTAGACCATGTAGTTGAGGTCA       |
| mouse IL-25-F                                   | ACAGGGACTTGAATCGGGTC          |
| mouse IL-25-R                                   | TGGTAAAGTGGGACGGAGTTG         |
| mouse IL-1 $\beta$ -F                           | GAAATGCCACCTTTTGACAGTG        |
| mouse IL-1 $\beta$ -R                           | TGGATGCTCTCATCAGGACAG         |
| mouse IL-5-F                                    | GCAATGAGACGATGAGGCTTC         |
| mouse IL-5-R                                    | GCCCCTGAAAGATTTCTCCAATG       |
| mouse IL-6-F                                    | CTGCAAGAGACTTCCATCCAG         |
| mouse IL-6-R                                    | AGTGGTATAGACAGGTCTGTTGG       |
| mouse TNF $\alpha$ -F                           | CAGGCGGTGCCTATGTCTC           |
| mouse TNF $\alpha$ -R                           | CGATCACCCCGAAGTTCAGTAG        |
| human GAPDH-F                                   | GGAGCGAGATCCCTCCAAAAT         |
| human GAPDH-R                                   | GGCTGTTGTCATACTTCTCATGG       |
| human TSLP-F                                    | ATGTTTCGCCATGAAACTAAGGC       |
| human TSLP-R                                    | GCGACGCCACAATCCTTGTA          |
| human Eotaxin-F                                 | ACACCTTCAGCCTCCAACAT          |
| human Eotaxin-R                                 | GGTCTTGAAGATCACAGCTT          |
| human IL-8-F                                    | ACTGAGAGTGATTGAGAGTGAGAC      |
| human IL-8-R                                    | AACCCTCTGCACCCAGTTTTC         |
| human IL-33-F                                   | TCAGGTGACGGTGTTGATGG          |
| human IL-33-R                                   | GGAGCTCCACAGAGTGTTCC          |
| human IL-6-F                                    | ACTCACCTCTTCAGAACGAATTG       |
| human IL-6-R                                    | CCATCTTTGGAAGGTTCAAGTTG       |
| human TNF $\alpha$ -F                           | CCTCTCTCTAATCAGCCCTCTG        |
| human TNF $\alpha$ -R                           | GAGGACCTGGGAGTAGATGAG         |
| <i>For bacterial abundance analysis by qPCR</i> |                               |
| 16s-F                                           | CGTCAGCTCGTGYCGTGAG           |
| 16s-R                                           | CGTCRTCCCCRCCTTCC             |
| 16s-probe                                       | TTAAGTCCCRYAACGAGCGCAACCC     |
| tpi-F                                           | CATCTGATAAACCTTCGACAGCTTT     |
| tpi-R                                           | TGCTATCTTCAATCACGGTATGACA     |
| tpi-probe                                       | CCAGCTTCACGTTCTTCATCAGATTCACC |
| gtf-F                                           | CACGCCATGCTGGAAGTG            |
| gtf-R                                           | GCGATGAGCCAAGCTGAAG           |
| gtf-probe                                       | TTAGCTGCTGCGTAGACTTCGTCT      |
| <i>For construction of MUC5AC deletion</i>      |                               |
| sgRNA-1                                         | GCACCTTTTTTCATGCACCACTGG      |
| sgRNA-2                                         | CAGAACGTGGAGGGCATATCAGG       |
| sgRNA-3                                         | CAATAACCACCCGTGAGTCTGGG       |
| sgRNA-4                                         | AGTCTGGGGCAGTATTGGATGGG       |
| <i>For analysis of MUC5AC deletion</i>          |                               |
| oGN383                                          | GGGAGTCGACTTCTGCTGAC          |
| oGN384                                          | ATCCTTTGCCCCATTTTACC          |
| oGN385                                          | GATGGACAGGTCTTCTACTTCCC       |
| oGN386                                          | AGTGGTGGTATTAGACTCCTGGA       |

