

## Supplementary materials

**Table 1.** The table lists human olfactory receptor peptides that show matches with SARS-CoV-2 proteins. Matches were identified through local alignments between olfactory receptor peptides and viral proteins and may highlight regions of potential structural or functional relevance.

| Human protein<br>(UniProt) | Olfactory<br>receptor | Peptide sequence | Viral protein | Viral region |
|----------------------------|-----------------------|------------------|---------------|--------------|
| Q8NH63                     | OR51H1                | TGIAVL           | R1AB_SARS2    | 3520-3525    |
| Q9H342                     | OR51J1                | RMLLEK           | R1AB_SARS2    | 6817-6822    |
| Q96RC9                     | OR8B4                 | LNDFVS           | R1AB_SARS2    | 6898-6903    |
| Q8NGK0                     | OR51G2                | SVLLSM           | R1AB_SARS2    | 3916-3921    |
| Q8NGK1                     | OR51G1                | SVLLSM           | R1AB_SARS2    | 3916-3921    |
| Q8NGR3                     | OR1K1                 | LIVAAI           | NS7A_SARS2    | 102-107      |
| A6NJZ3                     | OR6C65                | ALSKGV           | AP3A_SARS2    | 72-77        |
| A6NIJ9                     | OR6C70                | ALSKGV           | AP3A_SARS2    | 72-77        |
| Q8NH08                     | OR10AC1               | LSRVLG           | R1AB_SARS2    | 2113-2118    |
| Q9Y3N9                     | OR2W1                 | AIFYLIT          | R1AB_SARS2    | 2785-2791    |
| Q9Y3N9                     | OR2W1                 | AILAS            | R1AB_SARS2    | 474-479      |
| Q8NG78                     | OR8G5                 | FLVFLGI          | NS8_SARS2     | 3-9          |
| Q8WZ94                     | OR5P3                 | FLVFLGI          | NS8_SARS2     | 3-9          |

| Human protein<br>(UniProt) | Olfactory<br>receptor | Peptide sequence | Viral protein      | Viral region                                           |
|----------------------------|-----------------------|------------------|--------------------|--------------------------------------------------------|
| Q15615                     | OR4D1                 | IIWFLLL          | R1AB_SARS2         | 2230-2236                                              |
| Q8NGI0                     | OR52N2                | SCGNFKV          | R1AB_SARS2         | 505-511                                                |
| Q8NH40                     | OR6S1                 | GNLLLDK          | R1AB_SARS2         | 4777-4783                                              |
| Q8NG98                     | OR7D4                 | IIFWFSL          | NS7B_SARS2         | 26-32                                                  |
| A6NHG9                     | OR5H14                | ISVTTE           | <b>SPIKE_SARS2</b> | 720-725<br>AIPTNFTISVTTEIL<br><i>CD4 T Lymphocytes</i> |
| A6NHG9                     | OR5H14                | FTIGTV           | AP3A_SARS2         | 8-13                                                   |
| Q8NH70                     | OR4A16                | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| Q8NGH9                     | OR52E4                | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| Q8NGL6                     | OR4A15                | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| P0C604                     | OR4A8                 | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| P0C628                     | OR5AC1                | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| Q8NGI7                     | OR10V1                | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| Q8WZA6                     | OR1E3                 | LVVMAY           | R1AB_SARS2         | 595-600                                                |
| A6NND4                     | OR2AT4                | LVVMAY           | R1AB_SARS2         | 595-600                                                |

| <b>Human protein<br/>(UniProt)</b> | <b>Olfactory<br/>receptor</b> | <b>Peptide sequence</b> | <b>Viral protein</b> | <b>Viral region</b> |
|------------------------------------|-------------------------------|-------------------------|----------------------|---------------------|
| Q8NGB2                             | OR4C5                         | LVVMAY                  | R1AB_SARS2           | 595-600             |
| Q8N127                             | OR5AS1                        | LKKLLE                  | VME1_SARS2           | 13-18               |
| Q96KK4                             | OR10C1                        | LATALL                  | R1AB_SARS2           | 1676-1681           |
| Q8NGH5                             | OR56A1                        | ILTSLL                  | R1AB_SARS2           | 3587-3592           |
| Q8NGR4                             | OR5C1                         | ICGFIQ                  | R1AB_SARS2           | 6951-6956           |
| Q96RD1                             | OR6C1                         | NMARKT                  | ORF9B_SARS2          | 55-60               |
| Q8NH56                             | OR52N5                        | IFWFSL                  | NS7B_SARS2           | 27-32               |
| Q8NH37                             | OR4C3                         | FVVFLL                  | VEMP_SARS2           | 23-28               |
| Q8NGF8                             | OR4B1                         | AEILLI                  | NS6_SARS2            | 12-17               |
| Q8NGN1                             | OR6T1                         | FLVFLG                  | NS8_SARS2            | 3-8                 |
| Q8NGG6                             | OR8B12                        | LSLIDF                  | NS7B_SARS2           | 4-9                 |