### Supplementary table 2. Patient HLA typing in relation to UV1 peptides immune responses

| HLA-A     | HLA-B     | HLA-DRB1 | HLA-DQB1 | HLA-DPB1 | p719-20 | p728 | p725 | UV1 mix |
|-----------|-----------|----------|----------|----------|---------|------|------|---------|
| *01:01    | *03:01    | *07:02   | *40:01   | *04:04   | *15:01  | *03:02| *06:02| *03:01P| *04:01P| +      | -    | -    | +       |
| *23:01    | *24:02    | *35:01   | *44:03   | *01:03   | *07:01  | *02:02| *05:01| *02:01 | -       | +      | -    | +    | +       |
| *03:01    | -         | *07:02   | *15:01   | *04:01   | *07:01  | *02:02| *03:02| *01:01 | *04:01  | +      | -    | -    | +       |
| *03:01    | *25:01    | *08:01   | *18:01   | *03:01   | *15:01  | *02:01| *06:02| *04:01 | -       | +      | +    | +    | +       |
| *02:01    | *03:01    | *44:02   | *51:01   | *08:03   | *15:01  | *03:01| *06:02| *02:01 | *04:01  | +      | -    | -    | +       |
| *01:01    | *02:01    | *40:01   | *57:01   | *07:01   | *13:02  | *03:03| *06:04| *04:02 | -       | +      | -    | -    | +       |
| *02:01    | *03:01    | *07:02   | *35:01   | *07:01   | *08:01  | *03:03| *04:02| *04:01 | -       | +      | +    | +    | +       |
| *02:01    | *24:02    | *15:01   | *44:02   | *01:01   | *13:01  | *05:01| *06:03| *03:01P| *04:01P| +      | +    | +    | +       |
| *02:01    | *03:01    | *07:02   | -        | *15:01   | -       | *06:02| -    | *04:01 | -       | +      | -    | -    | +       |
| *02:01    | *30:01    | *13:02   | *44:02   | *07:01   | *11:01  | *02:02| *03:01| *02:01 | *17:01  | +      | -    | -    | +       |

Patient HLA typing in immune responders ($N=10$). HLA typing was conducted using Tier 1 Typing by PCR-sequence specific oligonucleotides (PCR-SSOP) to resolve major allele groups to 4 digits, with some degeneracy. Immune responses were observed across HLA subtypes.