**Supplementary File 3.** **Key Resources Table**

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| Key Resources Table | | | | |
| Reagent type (species) or resource | Designation | Source or reference | Identifiers | Additional information |
| strain, strain background (*Escherichia coli*) | *E. coli* BL21(DE3) | Thermo  Fisher  Scientific | C601003 | Prokaryotic expression protein |
| strain, strain background (*Escherichia coli*) | *E. coli* DH5α  (DE3) | Thermo  Fisher  Scientific | 18258012 | Clone vectors |
| antibody | Anti-Flag  (Mouse monoclonal) | Sigma | F1804-200UG | WB (1:5000) |
| antibody | Anti-His  (Mouse monoclonal) | proteintech | Cat No: 66005-l-lg | WB (1:5000) |
| antibody | Anti-GST  (Rabbit polyclonal) | Thermo  Fisher  Scientific | A-5800 | WB (1:10000) |
| antibody | Anti-RFP  (Rabbit polyclonal) | This paper |  | WB (1:3000)  (Materials and methods section) |
| antibody | Anti-P  (Rabbit polyclonal) | This paper |  | WB (1:3000)  (Materials and methods section) |
| antibody | Anti-N  (Rabbit polyclonal) | This paper |  | WB (1:3000)  (Materials and methods section) |
| commercial assay or kit | SE Seamless cloning and Assembly Kit | ZOMANBIO | ZC231-2 |  |
| commercial assay or kit | HiScript II Reverse Transcriptase | Vazyme | Vazyme Code: R201-02 |  |
| commercial assay or kit | T7 RiboMAXTM Express RNAi System | Promega | P1700 |  |
| commercial assay or kit | 2×Phanta Max Master Mix | Vazyme | Vazyme Code: P515-02 |  |
| commercial assay or kit | SsoFast EvaGreen Supermix | Bio-Rad | Cat.#1725201 |  |
| commercial assay or kit | TIANprep Rapid Mini Plasmid Kit | TIANGEN | Cat.#DP105-03 |  |
| recombinant DNA reagent | pET30a-HvCCR4 | This paper |  | For purification of HvCCR4-his  (Materials and methods section) |
| recombinant DNA reagent | pET30a-P | This paper |  | For purification of P-his (Materials and methods section) |
| recombinant DNA reagent | pET30a-N | This paper |  | For purification of N-his (Materials and methods section) |
| recombinant DNA reagent | pGEX-P | This paper |  | For purification of GST-P (Materials and methods section) |
| recombinant DNA reagent | pGDGm-P | This paper |  | For expression of P-GFP (Materials and methods section) |
| recombinant DNA reagent | pMDC32-HvCCR4 | This paper |  | For expression of HvCCR4-3Flag (Materials and methods section) |
| recombinant DNA reagent | pMDC32-HvCCR4N | This paper |  | For expression of HvCCR4N-3Flag (Materials and methods section) |
| recombinant DNA reagent | pMDC32-HvCCR4C | This paper |  | For expression of HvCCR4C-3Flag (Materials and methods section) |
| recombinant DNA reagent | pMDC32-HvCCR4mEEP | This paper |  | For expression of HvCCR4mEEP-3Flag (Materials and methods section) |
| recombinant DNA reagent | pMDC32-HvCAF1 | This paper |  | For expression of HvCAF1-3Flag (Materials and methods section) |
| recombinant DNA reagent | pYN-P | This paper |  | For expression of YN-P (Materials and methods section) |
| recombinant DNA reagent | pYC-P | This paper |  | For expression of YC-P (Materials and methods section) |
| recombinant DNA reagent | pYN-HvCCR4 | This paper |  | For expression of YN-HvCCR4 (Materials and methods section) |
| recombinant DNA reagent | pYN-HvCCR4N | This paper |  | For expression of YN-HvCCR4N (Materials and methods section) |
| recombinant DNA reagent | pYN-HvCCR4C | This paper |  | For expression of YN-HvCCR4C (Materials and methods section) |
| recombinant DNA reagent | pYC-HvCCR4 | This paper |  | For expression of YC-HvCCR4 (Materials and methods section) |
| recombinant DNA reagent | pYN-NCMV-P | This paper |  | For expression of YN-NCMV-P (Materials and methods section) |
| recombinant DNA reagent | pYC-NCMV-P | This paper |  | For expression of YC-NCMV-P (Materials and methods section) |
| recombinant DNA reagent | pYC-HvCAF1 | This paper |  | For expression of YC-HvCAF1 (Materials and methods section) |
| recombinant DNA reagent | pYC-lsCCR4 | This paper |  | For expression of YC-lsCCR4  (Materials and methods section) |
| recombinant DNA reagent | pYC-lsCCR4N | This paper |  | For expression of YC-lsCCR4N  (Materials and methods section) |
| recombinant DNA reagent | pYC-lsCCR4C | This paper |  | For expression of YC-lsCCR4C  (Materials and methods section) |
| recombinant DNA reagent | pGDG-P1-207 | This paper |  | For expression of GFP-P1-207 |
| recombinant DNA reagent | pGDGm-HvCCR4 | This paper |  | For expression of HvCCR4-GFP (Materials and methods section) |
| recombinant DNA reagent | pSuper-HvCCR4 | This paper |  | For expression of HvCCR4-mCherry (Materials and methods section) |
| recombinant DNA reagent | pGDGc-P | This paper |  | For expression of CFP-P |
| recombinant DNA reagent | pMAL-HvCAF1 | This paper |  | For purification of MBP-HvCAF1 (Materials and methods section) |
| recombinant DNA reagent | pBYR-GUS | This paper |  | For expression of cDNA clone of BY-GUS-RFP (Materials and methods section) |
| recombinant DNA reagent | pBYR-HvCCR4 | This paper |  | For expression of cDNA clone of BY-HvCCR4-RFP (Materials and methods section) |
| recombinant DNA reagent | pBYR-HvCCR4mEEP | This paper |  | For expression of cDNA clone of BY-HvCCR4mEEP-RFP (Materials and methods section) |
| software, algorithm | ImageJ | NIH |  | Quantify gels bands |
| software, algorithm | GraphPad Prism | GraphPad |  | Statistic datas |
| software, algorithm | LAS X | Leica Application suit X |  | Confocal observation |