**Supplementary File 1:**

**UNC-3 binding sites (COE motifs) are not found in the *cis*-regulatory region of VD- and VC-expressed terminal identity genes.**

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| --- | --- | --- | --- |
| **Terminal identity gene** | **Expression** | **Effect in *unc-3 (-)*** | **COE motif** |
| *unc-17* | Cholinergic MNs | Loss of expression in MNs | Yes |
| *cho-1* | Cholinergic MNs | Yes |
| *acr-2* | Cholinergic MNs | Yes |
| *del-1* | Cholinergic MNs | Yes |
| *unc-129* | Cholinergic MNs | Yes |
| *nca-1* | Cholinergic MNs | Yes |
| *slo-2* | Cholinergic MNs | Yes |
|  |  |  |  |
| *ser-2* | VD | Ectopic expression in MNs | No |
| *oig-1* | VD | No |
| *flp-11* | DD/VD/VC | No |
| *twk-46* | DD/VD/VC | No |
| *ilys-4* | DD/VD/VC | No |
| *glr-5* | VC | No |
| *ida-1* | VC | No |
| *srb-16* | VC | No |