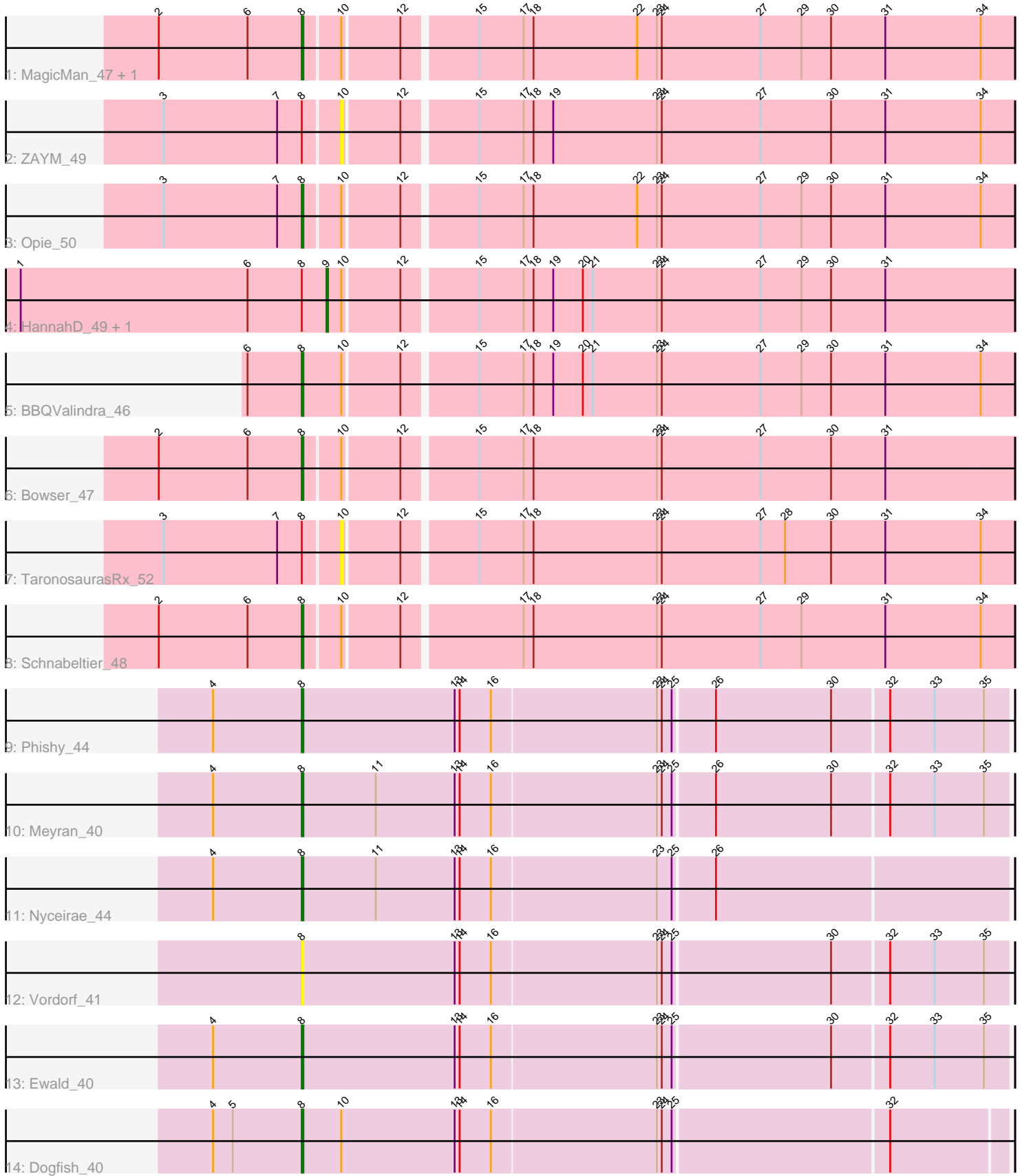


Pham 156735



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 156735 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156735 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : MagicMan_47, Eyes_45
- Track 2 : ZAYM_49
- Track 3 : Opie_50
- Track 4 : HannahD_49, GEazy_52
- Track 5 : BBQValindra_46
- Track 6 : Bowser_47
- Track 7 : TaronosaurusRx_52
- Track 8 : Schnabeltier_48
- Track 9 : Phishy_44
- Track 10 : Meyran_40
- Track 11 : Nyceirae_44
- Track 12 : Vordorf_41
- Track 13 : Ewald_40
- Track 14 : Dogfish_40

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 8, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BBQValindra_46, Bowser_47, Dogfish_40, Ewald_40, Eyes_45, MagicMan_47, Meyran_40, Nyceirae_44, Opie_50, Phishy_44, Schnabeltier_48, Vordorf_41,

Genes that have the "Most Annotated" start but do not call it:

- GEazy_52, HannahD_49, TaronosaurusRx_52, ZAYM_49,

Genes that do not have the "Most Annotated" start:

-

Summary by start number:

Start 8:

- Found in 16 of 16 (100.0%) of genes in pham

- Manual Annotations of this start: 11 of 13
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BBQValindra_46 (DB), Bowser_47 (DB), Dogfish_40 (DT), Ewald_40 (DT), Eyes_45 (DB), MagicMan_47 (DB), Meyran_40 (DT), Nyceirae_44 (DT), Opie_50 (DB), Phishy_44 (DT), Schnabeltier_48 (DB), Vordorf_41 (DT),

Start 9:

- Found in 2 of 16 (12.5%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GEazy_52 (DB), HannahD_49 (DB),

Start 10:

- Found in 11 of 16 (68.8%) of genes in pham
- No Manual Annotations of this start.
- Called 18.2% of time when present
- Phage (with cluster) where this start called: TaronosaurusRx_52 (DB), ZAYM_49 (DB),

Summary by clusters:

There are 2 clusters represented in this pham: DT, DB,

Info for manual annotations of cluster DB:

- Start number 8 was manually annotated 6 times for cluster DB.
- Start number 9 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DT:

- Start number 8 was manually annotated 5 times for cluster DT.

Gene Information:

Gene: BBQValindra_46 Start: 34874, Stop: 35296, Start Num: 8

Candidate Starts for BBQValindra_46:

(6, 34841), (Start: 8 @34874 has 11 MA's), (10, 34898), (12, 34931), (15, 34973), (17, 35000), (18, 35006), (19, 35018), (20, 35036), (21, 35042), (23, 35081), (24, 35084), (27, 35144), (29, 35168), (30, 35186), (31, 35219), (34, 35276),

Gene: Bowser_47 Start: 34683, Stop: 35102, Start Num: 8

Candidate Starts for Bowser_47:

(2, 34596), (6, 34650), (Start: 8 @34683 has 11 MA's), (10, 34704), (12, 34737), (15, 34779), (17, 34806), (18, 34812), (23, 34887), (24, 34890), (27, 34950), (30, 34992), (31, 35025),

Gene: Dogfish_40 Start: 31602, Stop: 32018, Start Num: 8

Candidate Starts for Dogfish_40:

(4, 31548), (5, 31560), (Start: 8 @31602 has 11 MA's), (10, 31626), (13, 31695), (14, 31698), (16, 31716), (23, 31815), (24, 31818), (25, 31824), (32, 31950),

Gene: Ewald_40 Start: 31420, Stop: 31839, Start Num: 8

Candidate Starts for Ewald_40:

(4, 31366), (Start: 8 @31420 has 11 MA's), (13, 31513), (14, 31516), (16, 31534), (23, 31633), (24, 31636), (25, 31642), (30, 31735), (32, 31768), (33, 31795), (35, 31825),

Gene: Eyes_45 Start: 34727, Stop: 35146, Start Num: 8

Candidate Starts for Eyes_45:

(2, 34640), (6, 34694), (Start: 8 @34727 has 11 MA's), (10, 34748), (12, 34781), (15, 34823), (17, 34850), (18, 34856), (22, 34919), (23, 34931), (24, 34934), (27, 34994), (29, 35018), (30, 35036), (31, 35069), (34, 35126),

Gene: GEazy_52 Start: 35017, Stop: 35424, Start Num: 9

Candidate Starts for GEazy_52:

(1, 34831), (6, 34969), (Start: 8 @35002 has 11 MA's), (Start: 9 @35017 has 2 MA's), (10, 35026), (12, 35059), (15, 35101), (17, 35128), (18, 35134), (19, 35146), (20, 35164), (21, 35170), (23, 35209), (24, 35212), (27, 35272), (29, 35296), (30, 35314), (31, 35347),

Gene: HannahD_49 Start: 34384, Stop: 34791, Start Num: 9

Candidate Starts for HannahD_49:

(1, 34198), (6, 34336), (Start: 8 @34369 has 11 MA's), (Start: 9 @34384 has 2 MA's), (10, 34393), (12, 34426), (15, 34468), (17, 34495), (18, 34501), (19, 34513), (20, 34531), (21, 34537), (23, 34576), (24, 34579), (27, 34639), (29, 34663), (30, 34681), (31, 34714),

Gene: MagicMan_47 Start: 34609, Stop: 35028, Start Num: 8

Candidate Starts for MagicMan_47:

(2, 34522), (6, 34576), (Start: 8 @34609 has 11 MA's), (10, 34630), (12, 34663), (15, 34705), (17, 34732), (18, 34738), (22, 34801), (23, 34813), (24, 34816), (27, 34876), (29, 34900), (30, 34918), (31, 34951), (34, 35008),

Gene: Meyran_40 Start: 32494, Stop: 32913, Start Num: 8

Candidate Starts for Meyran_40:

(4, 32440), (Start: 8 @32494 has 11 MA's), (11, 32539), (13, 32587), (14, 32590), (16, 32608), (23, 32707), (24, 32710), (25, 32716), (26, 32740), (30, 32809), (32, 32842), (33, 32869), (35, 32899),

Gene: Nyceirae_44 Start: 32308, Stop: 32727, Start Num: 8

Candidate Starts for Nyceirae_44:

(4, 32254), (Start: 8 @32308 has 11 MA's), (11, 32353), (13, 32401), (14, 32404), (16, 32422), (23, 32521), (25, 32530), (26, 32554),

Gene: Opie_50 Start: 35554, Stop: 35973, Start Num: 8

Candidate Starts for Opie_50:

(3, 35470), (7, 35539), (Start: 8 @35554 has 11 MA's), (10, 35575), (12, 35608), (15, 35650), (17, 35677), (18, 35683), (22, 35746), (23, 35758), (24, 35761), (27, 35821), (29, 35845), (30, 35863), (31, 35896), (34, 35953),

Gene: Phishy_44 Start: 33491, Stop: 33910, Start Num: 8

Candidate Starts for Phishy_44:

(4, 33437), (Start: 8 @33491 has 11 MA's), (13, 33584), (14, 33587), (16, 33605), (23, 33704), (24, 33707), (25, 33713), (26, 33737), (30, 33806), (32, 33839), (33, 33866), (35, 33896),

Gene: Schnabeltier_48 Start: 34802, Stop: 35221, Start Num: 8

Candidate Starts for Schnabeltier_48:

(2, 34715), (6, 34769), (Start: 8 @34802 has 11 MA's), (10, 34823), (12, 34856), (17, 34925), (18, 34931), (23, 35006), (24, 35009), (27, 35069), (29, 35093), (31, 35144), (34, 35201),

Gene: TaronosaurusRx_52 Start: 34148, Stop: 34546, Start Num: 10

Candidate Starts for TaronosaurusRx_52:

(3, 34043), (7, 34112), (Start: 8 @34127 has 11 MA's), (10, 34148), (12, 34181), (15, 34223), (17, 34250), (18, 34256), (23, 34331), (24, 34334), (27, 34394), (28, 34409), (30, 34436), (31, 34469), (34, 34526),

Gene: Vordorf_41 Start: 31757, Stop: 32176, Start Num: 8

Candidate Starts for Vordorf_41:

(Start: 8 @31757 has 11 MA's), (13, 31850), (14, 31853), (16, 31871), (23, 31970), (24, 31973), (25, 31979), (30, 32072), (32, 32105), (33, 32132), (35, 32162),

Gene: ZAYM_49 Start: 33896, Stop: 34294, Start Num: 10

Candidate Starts for ZAYM_49:

(3, 33791), (7, 33860), (Start: 8 @33875 has 11 MA's), (10, 33896), (12, 33929), (15, 33971), (17, 33998), (18, 34004), (19, 34016), (23, 34079), (24, 34082), (27, 34142), (30, 34184), (31, 34217), (34, 34274),