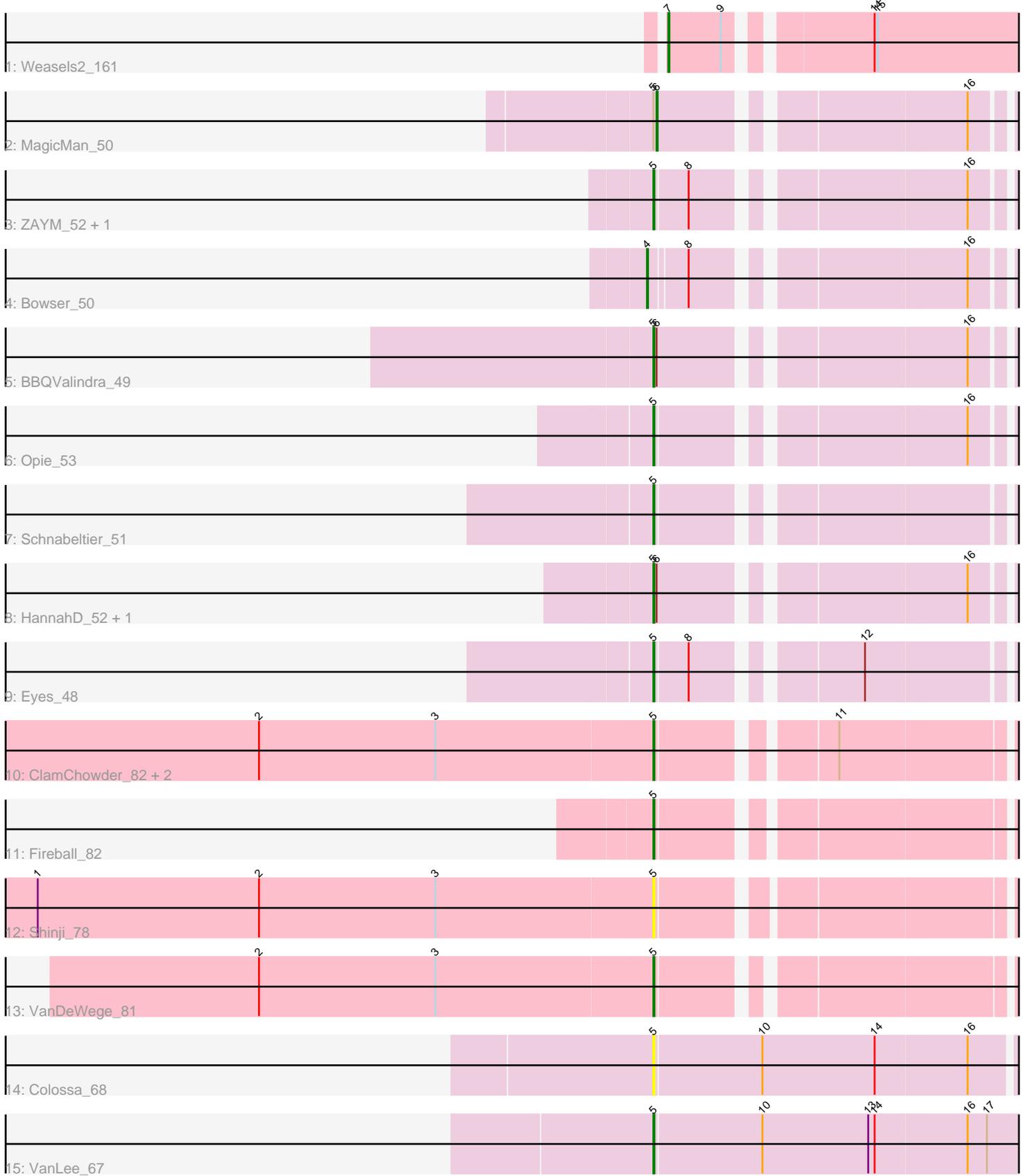


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284215 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284215 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Weasels2\_161
- Track 2 : MagicMan\_50
- Track 3 : ZAYM\_52, TaronosaurusRx\_54
- Track 4 : Bowser\_50
- Track 5 : BBQValindra\_49
- Track 6 : Opie\_53
- Track 7 : Schnabeltier\_51
- Track 8 : HannahD\_52, GEazy\_55
- Track 9 : Eyes\_48
- Track 10 : ClamChowder\_82, Fugax\_83, Barb\_82
- Track 11 : Fireball\_82
- Track 12 : Shinji\_78
- Track 13 : VanDeWege\_81
- Track 14 : Colossa\_68
- Track 15 : VanLee\_67

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BBQValindra\_49, Barb\_82, ClamChowder\_82, Colossa\_68, Eyes\_48, Fireball\_82, Fugax\_83, GEazy\_55, HannahD\_52, Opie\_53, Schnabeltier\_51, Shinji\_78, TaronosaurusRx\_54, VanDeWege\_81, VanLee\_67, ZAYM\_52,

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

- MagicMan\_50,

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

- Bowser\_50, Weasels2\_161,

### **Summary by start number:**

Start 4:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bowser\_50 (DB),

Start 5:

- Found in 17 of 19 ( 89.5% ) of genes in pham
- Manual Annotations of this start: 13 of 16
- Called 94.1% of time when present
- Phage (with cluster) where this start called: BBQValindra\_49 (DB), Barb\_82 (DC1), ClamChowder\_82 (DC1), Colossa\_68 (KA), Eyes\_48 (DB), Fireball\_82 (DC1), Fugax\_83 (DC1), GEazy\_55 (DB), HannahD\_52 (DB), Opie\_53 (DB), Schnabeltier\_51 (DB), Shinji\_78 (DC1), TaronosaurusRx\_54 (DB), VanDeWege\_81 (DC1), VanLee\_67 (KA), ZAYM\_52 (DB),

Start 6:

- Found in 4 of 19 ( 21.1% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 25.0% of time when present
- Phage (with cluster) where this start called: MagicMan\_50 (DB),

Start 7:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2\_161 (CB),

**Summary by clusters:**

There are 4 clusters represented in this pham: CB, KA, DB, DC1,

Info for manual annotations of cluster CB:

- Start number 7 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster DB:

- Start number 4 was manually annotated 1 time for cluster DB.
- Start number 5 was manually annotated 7 times for cluster DB.
- Start number 6 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 5 was manually annotated 5 times for cluster DC1.

Info for manual annotations of cluster KA:

- Start number 5 was manually annotated 1 time for cluster KA.

**Gene Information:**

Gene: BBQValindra\_49 Start: 36026, Stop: 36406, Start Num: 5

Candidate Starts for BBQValindra\_49:

(Start: 5 @36026 has 13 MA's), (Start: 6 @36029 has 1 MA's), (16, 36284),

Gene: Barb\_82 Start: 53127, Stop: 53516, Start Num: 5  
Candidate Starts for Barb\_82:  
(2, 52761), (3, 52926), (Start: 5 @53127 has 13 MA's), (11, 53268),

Gene: Bowser\_50 Start: 35722, Stop: 36102, Start Num: 4  
Candidate Starts for Bowser\_50:  
(Start: 4 @35722 has 1 MA's), (8, 35755), (16, 35980),

Gene: ClamChowder\_82 Start: 53127, Stop: 53516, Start Num: 5  
Candidate Starts for ClamChowder\_82:  
(2, 52761), (3, 52926), (Start: 5 @53127 has 13 MA's), (11, 53268),

Gene: Colossa\_68 Start: 42108, Stop: 42548, Start Num: 5  
Candidate Starts for Colossa\_68:  
(Start: 5 @42108 has 13 MA's), (10, 42207), (14, 42312), (16, 42396),

Gene: Eyes\_48 Start: 35683, Stop: 36063, Start Num: 5  
Candidate Starts for Eyes\_48:  
(Start: 5 @35683 has 13 MA's), (8, 35713), (12, 35845),

Gene: Fireball\_82 Start: 53252, Stop: 53641, Start Num: 5  
Candidate Starts for Fireball\_82:  
(Start: 5 @53252 has 13 MA's),

Gene: Fugax\_83 Start: 53119, Stop: 53508, Start Num: 5  
Candidate Starts for Fugax\_83:  
(2, 52753), (3, 52918), (Start: 5 @53119 has 13 MA's), (11, 53260),

Gene: GEazy\_55 Start: 36162, Stop: 36542, Start Num: 5  
Candidate Starts for GEazy\_55:  
(Start: 5 @36162 has 13 MA's), (Start: 6 @36165 has 1 MA's), (16, 36420),

Gene: HannahD\_52 Start: 35529, Stop: 35909, Start Num: 5  
Candidate Starts for HannahD\_52:  
(Start: 5 @35529 has 13 MA's), (Start: 6 @35532 has 1 MA's), (16, 35787),

Gene: MagicMan\_50 Start: 35795, Stop: 36172, Start Num: 6  
Candidate Starts for MagicMan\_50:  
(Start: 5 @35792 has 13 MA's), (Start: 6 @35795 has 1 MA's), (16, 36050),

Gene: Opie\_53 Start: 36511, Stop: 36888, Start Num: 5  
Candidate Starts for Opie\_53:  
(Start: 5 @36511 has 13 MA's), (16, 36766),

Gene: Schnabeltier\_51 Start: 35759, Stop: 36136, Start Num: 5  
Candidate Starts for Schnabeltier\_51:  
(Start: 5 @35759 has 13 MA's),

Gene: Shinji\_78 Start: 52301, Stop: 52693, Start Num: 5  
Candidate Starts for Shinji\_78:  
(1, 51728), (2, 51935), (3, 52100), (Start: 5 @52301 has 13 MA's),

Gene: TaronosaurusRx\_54 Start: 35309, Stop: 35686, Start Num: 5  
Candidate Starts for TaronosaurusRx\_54:  
(Start: 5 @35309 has 13 MA's), (8, 35339), (16, 35564),

Gene: VanDeWege\_81 Start: 52957, Stop: 53343, Start Num: 5  
Candidate Starts for VanDeWege\_81:  
(2, 52591), (3, 52756), (Start: 5 @52957 has 13 MA's),

Gene: VanLee\_67 Start: 42424, Stop: 42873, Start Num: 5  
Candidate Starts for VanLee\_67:  
(Start: 5 @42424 has 13 MA's), (10, 42523), (13, 42622), (14, 42628), (16, 42712), (17, 42730),

Gene: Weasels2\_161 Start: 90277, Stop: 90663, Start Num: 7  
Candidate Starts for Weasels2\_161:  
(Start: 7 @90277 has 1 MA's), (9, 90325), (14, 90436), (15, 90439),

Gene: ZAYM\_52 Start: 35058, Stop: 35435, Start Num: 5  
Candidate Starts for ZAYM\_52:  
(Start: 5 @35058 has 13 MA's), (8, 35088), (16, 35313),