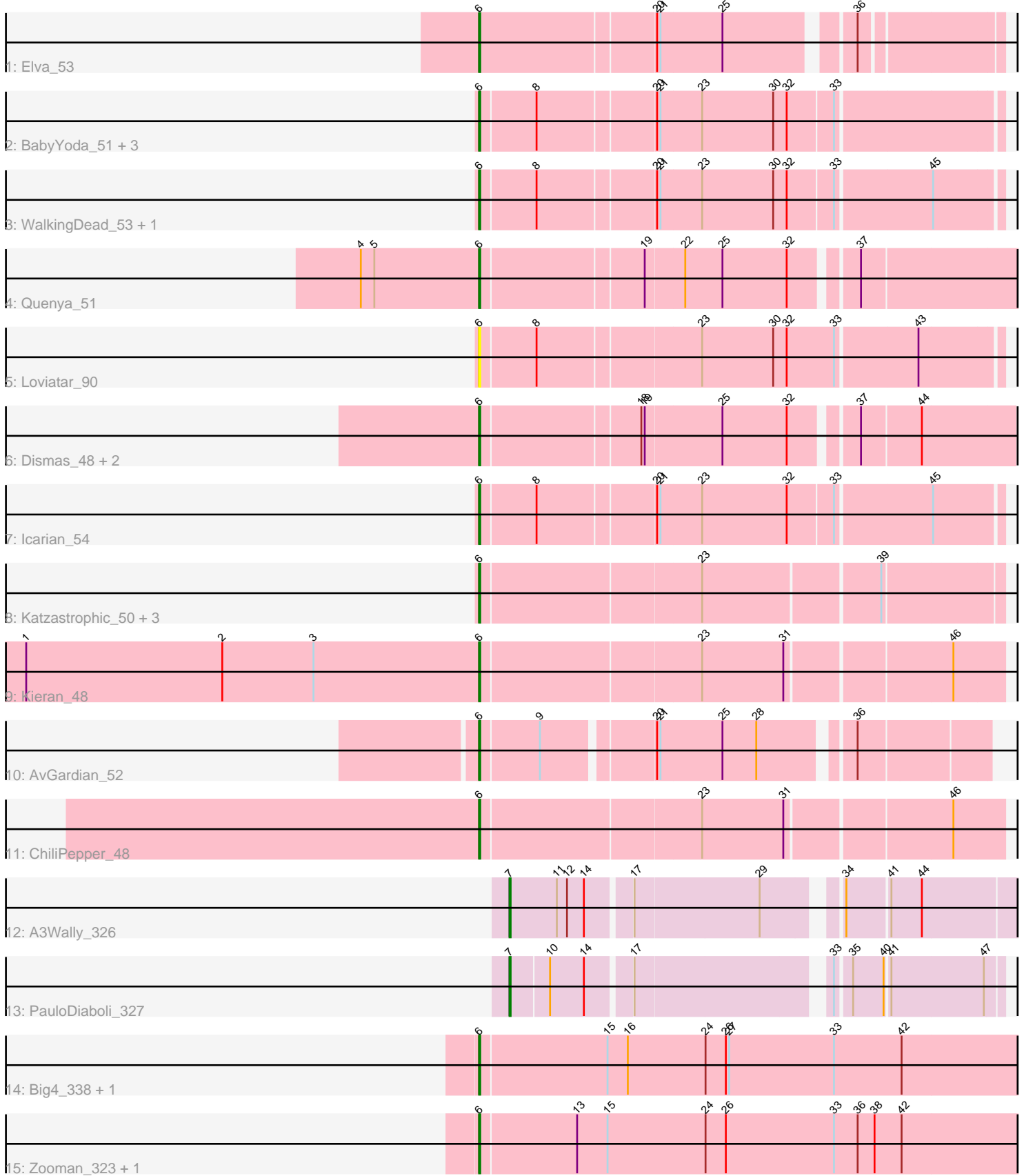


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194277 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194277 has 26 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Elva\_53
- Track 2 : BabyYoda\_51, Stromboli\_51, DirtyBubble\_50, SanaSana\_53
- Track 3 : WalkingDead\_53, Stoor\_51
- Track 4 : Quenya\_51
- Track 5 : Loviatar\_90
- Track 6 : Dismas\_48, Rona\_48, Sharkboy\_49
- Track 7 : Icarian\_54
- Track 8 : Katzastrophic\_50, Celaena\_49, Bachaco\_49, FlameThrower\_48
- Track 9 : Kieran\_48
- Track 10 : AvGardian\_52
- Track 11 : ChiliPepper\_48
- Track 12 : A3Wally\_326
- Track 13 : PauloDiaboli\_327
- Track 14 : Big4\_338, Big4\_12
- Track 15 : Zooman\_323, Zooman\_10

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

The start number called the most often in the published annotations is 6, it was called in 22 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AvGardian\_52, BabyYoda\_51, Bachaco\_49, Big4\_12, Big4\_338, Celaena\_49, ChiliPepper\_48, DirtyBubble\_50, Dismas\_48, Elva\_53, FlameThrower\_48, Icarian\_54, Katzastrophic\_50, Kieran\_48, Loviatar\_90, Quenya\_51, Rona\_48, SanaSana\_53, Sharkboy\_49, Stoor\_51, Stromboli\_51, WalkingDead\_53, Zooman\_10, Zooman\_323,

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

- 

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

- A3Wally\_326, PauloDiaboli\_327,

## Summary by start number:

### Start 6:

- Found in 24 of 26 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 22 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AvGardian\_52 (EB), BabyYoda\_51 (EB), Bachaco\_49 (EB), Big4\_12 (GD2), Big4\_338 (GD2), Celaena\_49 (EB), ChiliPepper\_48 (EB), DirtyBubble\_50 (EB), Dismas\_48 (EB), Elva\_53 (EB), FlameThrower\_48 (EB), Icarian\_54 (EB), Katzastrophic\_50 (EB), Kieran\_48 (EB), Loviatar\_90 (EB), Quenya\_51 (EB), Rona\_48 (EB), SanaSana\_53 (EB), Sharkboy\_49 (EB), Stoor\_51 (EB), Stromboli\_51 (EB), WalkingDead\_53 (EB), Zooman\_10 (GD2), Zooman\_323 (GD2),

### Start 7:

- Found in 2 of 26 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 2 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_326 (GD1), PauloDiaboli\_327 (GD1),

## Summary by clusters:

There are 3 clusters represented in this pham: GD1, GD2, EB,

Info for manual annotations of cluster EB:

- Start number 6 was manually annotated 18 times for cluster EB.

Info for manual annotations of cluster GD1:

- Start number 7 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 6 was manually annotated 4 times for cluster GD2.

## Gene Information:

Gene: A3Wally\_326 Start: 170993, Stop: 171403, Start Num: 7

Candidate Starts for A3Wally\_326:

(Start: 7 @170993 has 2 MA's), (11, 171035), (12, 171044), (14, 171059), (17, 171095), (29, 171203), (34, 171257), (41, 171293), (44, 171320),

Gene: AvGardian\_52 Start: 34737, Stop: 35147, Start Num: 6

Candidate Starts for AvGardian\_52:

(Start: 6 @34737 has 22 MA's), (9, 34788), (20, 34878), (21, 34881), (25, 34935), (28, 34965), (36, 35037),

Gene: BabyYoda\_51 Start: 35131, Stop: 35568, Start Num: 6

Candidate Starts for BabyYoda\_51:

(Start: 6 @35131 has 22 MA's), (8, 35179), (20, 35278), (21, 35281), (23, 35317), (30, 35380), (32, 35392), (33, 35431),

Gene: Bachaco\_49 Start: 35861, Stop: 36301, Start Num: 6

Candidate Starts for Bachaco\_49:

(Start: 6 @35861 has 22 MA's), (23, 36050), (39, 36200),

Gene: Big4\_338 Start: 180229, Stop: 180705, Start Num: 6

Candidate Starts for Big4\_338:

(Start: 6 @180229 has 22 MA's), (15, 180340), (16, 180358), (24, 180427), (26, 180445), (27, 180448), (33, 180541), (42, 180601),

Gene: Big4\_12 Start: 5535, Stop: 6011, Start Num: 6

Candidate Starts for Big4\_12:

(Start: 6 @5535 has 22 MA's), (15, 5646), (16, 5664), (24, 5733), (26, 5751), (27, 5754), (33, 5847), (42, 5907),

Gene: Celaena\_49 Start: 35623, Stop: 36063, Start Num: 6

Candidate Starts for Celaena\_49:

(Start: 6 @35623 has 22 MA's), (23, 35812), (39, 35962),

Gene: ChiliPepper\_48 Start: 34921, Stop: 35364, Start Num: 6

Candidate Starts for ChiliPepper\_48:

(Start: 6 @34921 has 22 MA's), (23, 35110), (31, 35182), (46, 35320),

Gene: DirtyBubble\_50 Start: 34799, Stop: 35236, Start Num: 6

Candidate Starts for DirtyBubble\_50:

(Start: 6 @34799 has 22 MA's), (8, 34847), (20, 34946), (21, 34949), (23, 34985), (30, 35048), (32, 35060), (33, 35099),

Gene: Dismas\_48 Start: 34843, Stop: 35286, Start Num: 6

Candidate Starts for Dismas\_48:

(Start: 6 @34843 has 22 MA's), (18, 34978), (19, 34981), (25, 35047), (32, 35104), (37, 35155), (44, 35206),

Gene: Elva\_53 Start: 35217, Stop: 35639, Start Num: 6

Candidate Starts for Elva\_53:

(Start: 6 @35217 has 22 MA's), (20, 35367), (21, 35370), (25, 35424), (36, 35523),

Gene: FlameThrower\_48 Start: 34660, Stop: 35100, Start Num: 6

Candidate Starts for FlameThrower\_48:

(Start: 6 @34660 has 22 MA's), (23, 34849), (39, 34999),

Gene: Icarian\_54 Start: 35804, Stop: 36241, Start Num: 6

Candidate Starts for Icarian\_54:

(Start: 6 @35804 has 22 MA's), (8, 35852), (20, 35951), (21, 35954), (23, 35990), (32, 36065), (33, 36104), (45, 36185),

Gene: Katzastrophic\_50 Start: 35170, Stop: 35610, Start Num: 6

Candidate Starts for Katzastrophic\_50:

(Start: 6 @35170 has 22 MA's), (23, 35359), (39, 35509),

Gene: Kieran\_48 Start: 34884, Stop: 35327, Start Num: 6

Candidate Starts for Kieran\_48:

(1, 34482), (2, 34656), (3, 34737), (Start: 6 @34884 has 22 MA's), (23, 35073), (31, 35145), (46, 35283),

Gene: Loviatar\_90 Start: 36204, Stop: 36644, Start Num: 6

Candidate Starts for Loviatar\_90:

(Start: 6 @36204 has 22 MA's), (8, 36252), (23, 36390), (30, 36453), (32, 36465), (33, 36507), (43, 36576),

Gene: PauloDiaboli\_327 Start: 168500, Stop: 168892, Start Num: 7

Candidate Starts for PauloDiaboli\_327:

(Start: 7 @168500 has 2 MA's), (10, 168533), (14, 168563), (17, 168599), (33, 168755), (35, 168767), (40, 168794), (41, 168797), (47, 168878),

Gene: Quenya\_51 Start: 35296, Stop: 35745, Start Num: 6

Candidate Starts for Quenya\_51:

(4, 35191), (5, 35203), (Start: 6 @35296 has 22 MA's), (19, 35434), (22, 35467), (25, 35500), (32, 35557), (37, 35608),

Gene: Rona\_48 Start: 34834, Stop: 35277, Start Num: 6

Candidate Starts for Rona\_48:

(Start: 6 @34834 has 22 MA's), (18, 34969), (19, 34972), (25, 35038), (32, 35095), (37, 35146), (44, 35197),

Gene: SanaSana\_53 Start: 35511, Stop: 35948, Start Num: 6

Candidate Starts for SanaSana\_53:

(Start: 6 @35511 has 22 MA's), (8, 35559), (20, 35658), (21, 35661), (23, 35697), (30, 35760), (32, 35772), (33, 35811),

Gene: Sharkboy\_49 Start: 34933, Stop: 35376, Start Num: 6

Candidate Starts for Sharkboy\_49:

(Start: 6 @34933 has 22 MA's), (18, 35068), (19, 35071), (25, 35137), (32, 35194), (37, 35245), (44, 35296),

Gene: Stoor\_51 Start: 35304, Stop: 35735, Start Num: 6

Candidate Starts for Stoor\_51:

(Start: 6 @35304 has 22 MA's), (8, 35352), (20, 35451), (21, 35454), (23, 35490), (30, 35553), (32, 35565), (33, 35598), (45, 35679),

Gene: Stromboli\_51 Start: 35169, Stop: 35606, Start Num: 6

Candidate Starts for Stromboli\_51:

(Start: 6 @35169 has 22 MA's), (8, 35217), (20, 35316), (21, 35319), (23, 35355), (30, 35418), (32, 35430), (33, 35469),

Gene: WalkingDead\_53 Start: 35918, Stop: 36355, Start Num: 6

Candidate Starts for WalkingDead\_53:

(Start: 6 @35918 has 22 MA's), (8, 35966), (20, 36065), (21, 36068), (23, 36104), (30, 36167), (32, 36179), (33, 36218), (45, 36299),

Gene: Zooman\_323 Start: 180374, Stop: 180850, Start Num: 6

Candidate Starts for Zooman\_323:

(Start: 6 @180374 has 22 MA's), (13, 180458), (15, 180485), (24, 180572), (26, 180590), (33, 180686), (36, 180707), (38, 180722), (42, 180746),

Gene: Zooman\_10 Start: 4723, Stop: 5199, Start Num: 6

Candidate Starts for Zooman\_10:

(Start: 6 @4723 has 22 MA's), (13, 4807), (15, 4834), (24, 4921), (26, 4939), (33, 5035), (36, 5056), (38, 5071), (42, 5095),