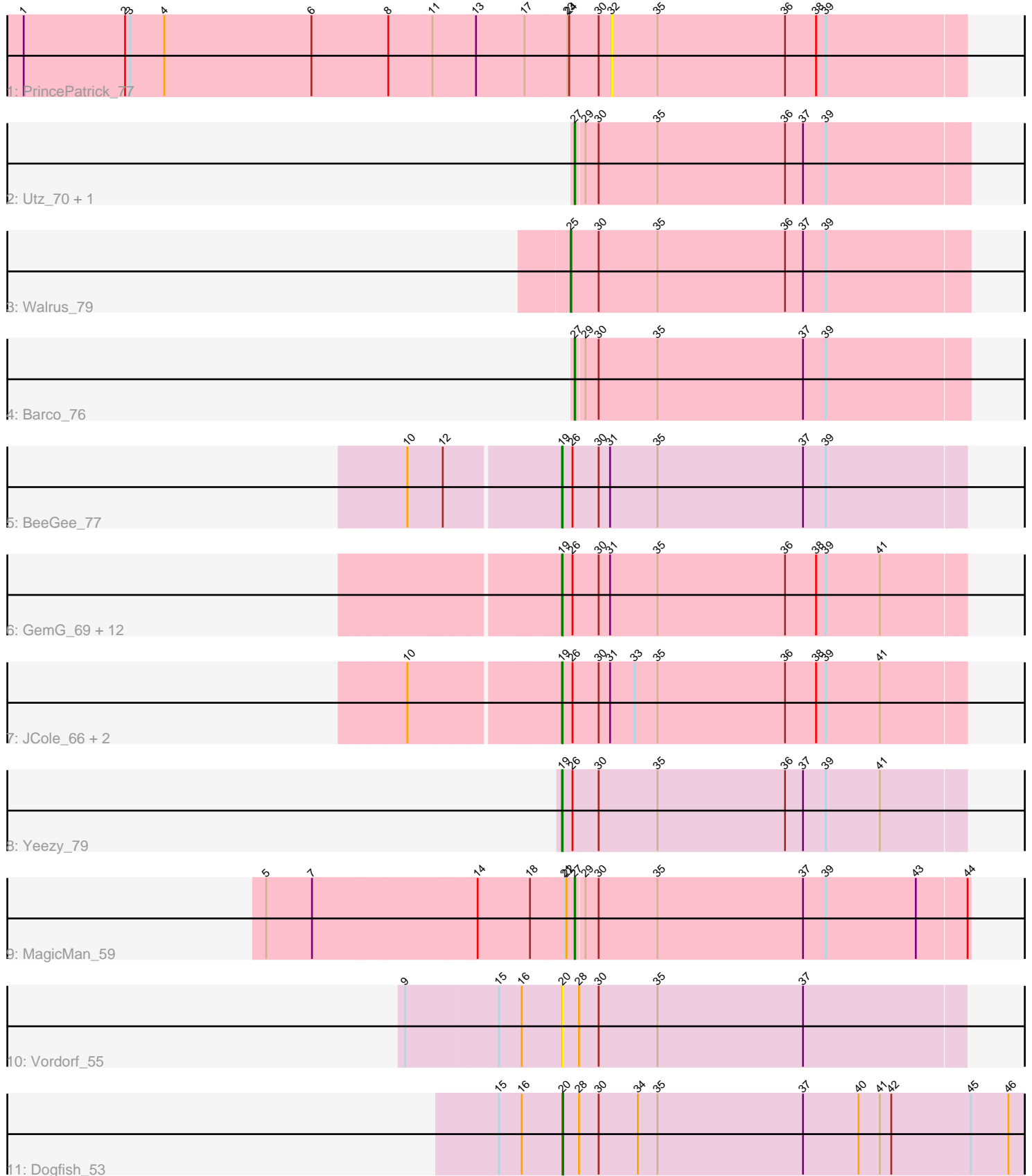


Pham 3290



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 3290 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3290 has 26 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PrincePatrick_77
- Track 2 : Utz_70, UmaThurman_82
- Track 3 : Walrus_79
- Track 4 : Barco_76
- Track 5 : BeeGee_77
- Track 6 : GemG_69, TuertoX_69, Mocha12_69, Bjanes7_66, Sproutie_69, Whiteclaw_69, Savage_69, Ebert_72, Gizermo_69, Cynthia_69, Haley23_69, Clap_69, Lamberg_65
- Track 7 : JCole_66, EdnaMode_67, Pickett_66
- Track 8 : Yeezy_79
- Track 9 : MagicMan_59
- Track 10 : Vordorf_55
- Track 11 : Dogfish_53

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

The start number called the most often in the published annotations is 19, it was called in 16 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BeeGee_77, Bjanes7_66, Clap_69, Cynthia_69, Ebert_72, EdnaMode_67, GemG_69, Gizermo_69, Haley23_69, JCole_66, Lamberg_65, Mocha12_69, Pickett_66, Savage_69, Sproutie_69, TuertoX_69, Whiteclaw_69, Yeezy_79,

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

-

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

- Barco_76, Dogfish_53, MagicMan_59, PrincePatrick_77, UmaThurman_82, Utz_70, Vordorf_55, Walrus_79,

Summary by start number:

Start 19:

- Found in 18 of 26 (69.2%) of genes in pham
- Manual Annotations of this start: 16 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BeeGee_77 (CY), Bjaner7_66 (CZ2), Clap_69 (CZ2), Cynthia_69 (CZ2), Ebert_72 (CZ2), EdnaMode_67 (CZ2), GemG_69 (CZ2), Gizermo_69 (CZ2), Haley23_69 (CZ2), JCole_66 (CZ2), Lamberg_65 (CZ2), Mocha12_69 (CZ2), Pickett_66 (CZ2), Savage_69 (CZ2), Sproutie_69 (CZ2), TuertoX_69 (CZ2), Whiteclaw_69 (CZ2), Yeezy_79 (CZ3),

Start 20:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish_53 (DT), Vordorf_55 (DT),

Start 25:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Walrus_79 (CV),

Start 27:

- Found in 4 of 26 (15.4%) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barco_76 (CV), MagicMan_59 (DB), UmaThurman_82 (CV), Utz_70 (CV),

Start 32:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PrincePatrick_77 (CV),

Summary by clusters:

There are 6 clusters represented in this pham: CZ2, CZ3, DB, CY, DT, CV,

Info for manual annotations of cluster CV:

- Start number 25 was manually annotated 1 time for cluster CV.
- Start number 27 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster CY:

- Start number 19 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ2:

- Start number 19 was manually annotated 14 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 19 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster DB:

- Start number 27 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DT:

- Start number 20 was manually annotated 1 time for cluster DT.

Gene Information:

Gene: Barco_76 Start: 47536, Stop: 48249, Start Num: 27

Candidate Starts for Barco_76:

(Start: 27 @47536 has 4 MA's), (29, 47551), (30, 47575), (35, 47683), (37, 47950), (39, 47992),

Gene: BeeGee_77 Start: 48741, Stop: 49469, Start Num: 19

Candidate Starts for BeeGee_77:

(10, 48486), (12, 48546), (Start: 19 @48741 has 16 MA's), (26, 48759), (30, 48804), (31, 48825), (35, 48912), (37, 49179), (39, 49221),

Gene: Bjanes7_66 Start: 43016, Stop: 43744, Start Num: 19

Candidate Starts for Bjanes7_66:

(Start: 19 @43016 has 16 MA's), (26, 43034), (30, 43079), (31, 43100), (35, 43187), (36, 43421), (38, 43478), (39, 43496), (41, 43595),

Gene: Clap_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Clap_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: Cynthia_69 Start: 43193, Stop: 43921, Start Num: 19

Candidate Starts for Cynthia_69:

(Start: 19 @43193 has 16 MA's), (26, 43211), (30, 43256), (31, 43277), (35, 43364), (36, 43598), (38, 43655), (39, 43673), (41, 43772),

Gene: Dogfish_53 Start: 39777, Stop: 40649, Start Num: 20

Candidate Starts for Dogfish_53:

(15, 39660), (16, 39702), (Start: 20 @39777 has 1 MA's), (28, 39807), (30, 39843), (34, 39915), (35, 39951), (37, 40218), (40, 40320), (41, 40359), (42, 40380), (45, 40521), (46, 40590),

Gene: Ebert_72 Start: 43627, Stop: 44355, Start Num: 19

Candidate Starts for Ebert_72:

(Start: 19 @43627 has 16 MA's), (26, 43645), (30, 43690), (31, 43711), (35, 43798), (36, 44032), (38, 44089), (39, 44107), (41, 44206),

Gene: EdnaMode_67 Start: 43303, Stop: 44031, Start Num: 19

Candidate Starts for EdnaMode_67:

(10, 43048), (Start: 19 @43303 has 16 MA's), (26, 43321), (30, 43366), (31, 43387), (33, 43432), (35, 43474), (36, 43708), (38, 43765), (39, 43783), (41, 43882),

Gene: GemG_69 Start: 43199, Stop: 43927, Start Num: 19

Candidate Starts for GemG_69:

(Start: 19 @43199 has 16 MA's), (26, 43217), (30, 43262), (31, 43283), (35, 43370), (36, 43604), (38, 43661), (39, 43679), (41, 43778),

Gene: Gizermo_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Gizermo_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: Haley23_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Haley23_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: JCole_66 Start: 41865, Stop: 42593, Start Num: 19

Candidate Starts for JCole_66:

(10, 41610), (Start: 19 @41865 has 16 MA's), (26, 41883), (30, 41928), (31, 41949), (33, 41994), (35, 42036), (36, 42270), (38, 42327), (39, 42345), (41, 42444),

Gene: Lamberg_65 Start: 41704, Stop: 42432, Start Num: 19

Candidate Starts for Lamberg_65:

(Start: 19 @41704 has 16 MA's), (26, 41722), (30, 41767), (31, 41788), (35, 41875), (36, 42109), (38, 42166), (39, 42184), (41, 42283),

Gene: MagicMan_59 Start: 40890, Stop: 41600, Start Num: 27

Candidate Starts for MagicMan_59:

(5, 40335), (7, 40419), (14, 40716), (18, 40809), (21, 40872), (22, 40875), (Start: 27 @40890 has 4 MA's), (29, 40905), (30, 40929), (35, 41037), (37, 41304), (39, 41346), (43, 41511), (44, 41595),

Gene: Mocha12_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Mocha12_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: Pickett_66 Start: 41908, Stop: 42636, Start Num: 19

Candidate Starts for Pickett_66:

(10, 41653), (Start: 19 @41908 has 16 MA's), (26, 41926), (30, 41971), (31, 41992), (33, 42037), (35, 42079), (36, 42313), (38, 42370), (39, 42388), (41, 42487),

Gene: PrincePatrick_77 Start: 46524, Stop: 47168, Start Num: 32

Candidate Starts for PrincePatrick_77:

(1, 45462), (2, 45648), (3, 45657), (4, 45720), (6, 45990), (8, 46131), (11, 46206), (13, 46284), (17, 46371), (23, 46446), (24, 46449), (30, 46500), (32, 46524), (35, 46608), (36, 46842), (38, 46899), (39, 46917),

Gene: Savage_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Savage_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: Sproutie_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Sproutie_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: TuertoX_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for TuertoX_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: UmaThurman_82 Start: 48754, Stop: 49467, Start Num: 27

Candidate Starts for UmaThurman_82:

(Start: 27 @48754 has 4 MA's), (29, 48769), (30, 48793), (35, 48901), (36, 49135), (37, 49168), (39, 49210),

Gene: Utz_70 Start: 48396, Stop: 49109, Start Num: 27

Candidate Starts for Utz_70:

(Start: 27 @48396 has 4 MA's), (29, 48411), (30, 48435), (35, 48543), (36, 48777), (37, 48810), (39, 48852),

Gene: Vordorf_55 Start: 39657, Stop: 40388, Start Num: 20

Candidate Starts for Vordorf_55:

(9, 39375), (15, 39540), (16, 39582), (Start: 20 @39657 has 1 MA's), (28, 39687), (30, 39723), (35, 39831), (37, 40098),

Gene: Walrus_79 Start: 49643, Stop: 50368, Start Num: 25

Candidate Starts for Walrus_79:

(Start: 25 @49643 has 1 MA's), (30, 49691), (35, 49799), (36, 50033), (37, 50066), (39, 50108),

Gene: Whiteclaw_69 Start: 43195, Stop: 43923, Start Num: 19

Candidate Starts for Whiteclaw_69:

(Start: 19 @43195 has 16 MA's), (26, 43213), (30, 43258), (31, 43279), (35, 43366), (36, 43600), (38, 43657), (39, 43675), (41, 43774),

Gene: Yeezy_79 Start: 48209, Stop: 48937, Start Num: 19

Candidate Starts for Yeezy_79:

(Start: 19 @48209 has 16 MA's), (26, 48227), (30, 48272), (35, 48380), (36, 48614), (37, 48647), (39, 48689), (41, 48788),