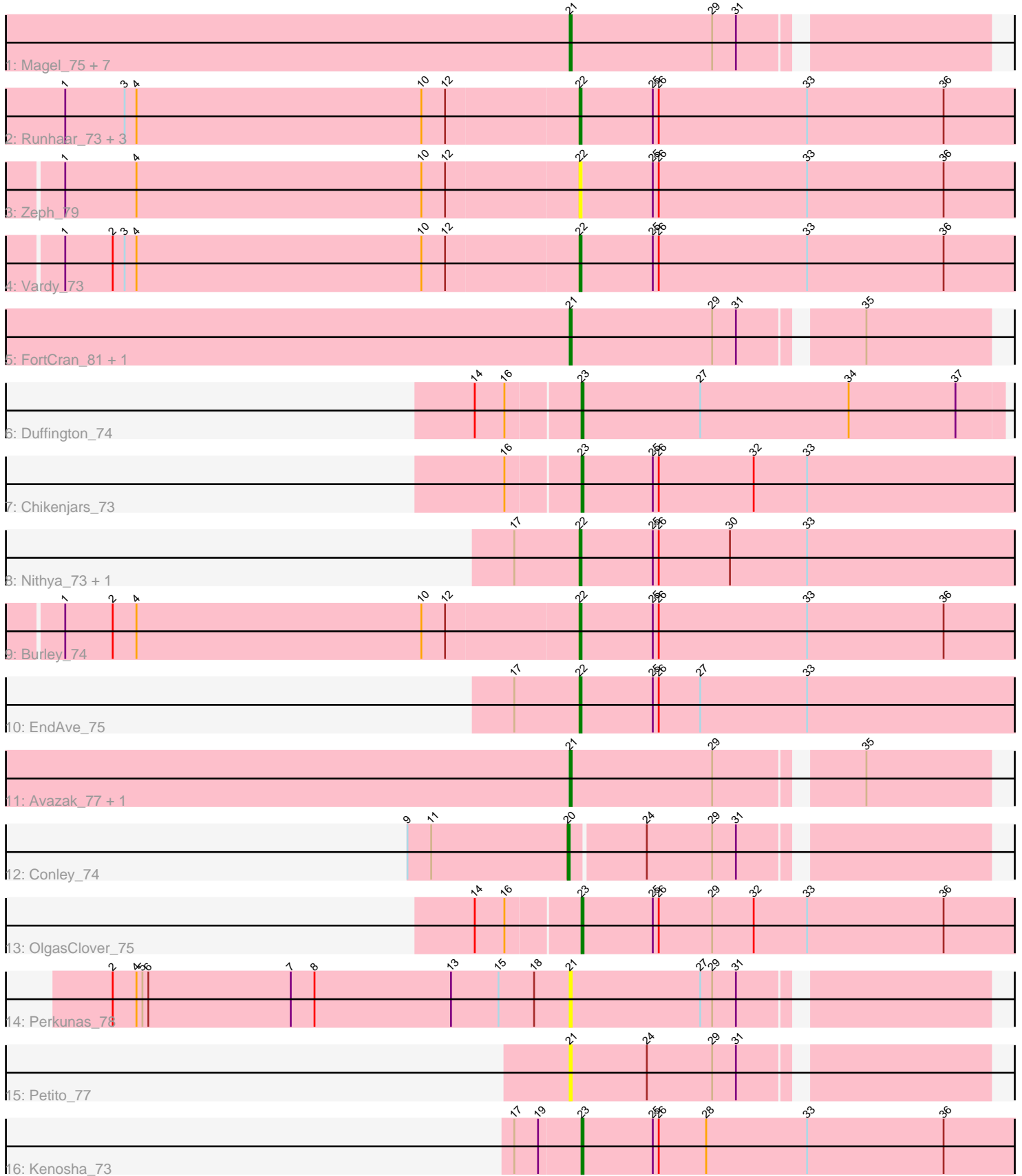


Pham 156576



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 156576 Report

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

Pham number 156576 has 29 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Magel_75, Odesza_73, Roney_74, Kerry_73, Tanis_74, Capybara_75, Gill_74, Gravy_73
- Track 2 : Runhaar_73, Madvan_72, Phepper_75, Untouchable_76
- Track 3 : Zeph_79
- Track 4 : Vardy_73
- Track 5 : FortCran_81, Artorias_76
- Track 6 : Duffington_74
- Track 7 : Chikenjars_73
- Track 8 : Nithya_73, AlainaMarie_73
- Track 9 : Burley_74
- Track 10 : EndAve_75
- Track 11 : Avazak_77, Captrips_76
- Track 12 : Conley_74
- Track 13 : OlgasClover_75
- Track 14 : Perkunas_78
- Track 15 : Petite_77
- Track 16 : Kenosha_73

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

The start number called the most often in the published annotations is 21, it was called in 9 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_76, Avazak_77, Captrips_76, Capybara_75, FortCran_81, Gill_74, Gravy_73, Kerry_73, Magel_75, Odesza_73, Perkunas_78, Petite_77, Roney_74, Tanis_74,

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

-

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

- AlainaMarie_73, Burley_74, Chikenjars_73, Conley_74, Duffington_74, EndAve_75, Kenosha_73, Madvan_72, Nithya_73, OlgasClover_75, Phepper_75, Runhaar_73,

Untouchable_76, Vardy_73, Zeph_79,

Summary by start number:

Start 20:

- Found in 1 of 29 (3.4%) 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: Conley_74 (DJ),

Start 21:

- Found in 14 of 29 (48.3%) of genes in pham
- Manual Annotations of this start: 9 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artorias_76 (DJ), Avazak_77 (DJ), Captrips_76 (DJ), Copybara_75 (DJ), FortCran_81 (DJ), Gill_74 (DJ), Gravy_73 (DJ), Kerry_73 (DJ), Magel_75 (DJ), Odesza_73 (DJ), Perkunas_78 (DJ), Petite_77 (DJ), Roney_74 (DJ), Tanis_74 (DJ),

Start 22:

- Found in 10 of 29 (34.5%) of genes in pham
- Manual Annotations of this start: 8 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlainaMarie_73 (DJ), Burley_74 (DJ), EndAve_75 (DJ), Madvan_72 (DJ), Nithya_73 (DJ), Phepper_75 (DJ), Runhaar_73 (DJ), Untouchable_76 (DJ), Vardy_73 (DJ), Zeph_79 (DJ),

Start 23:

- Found in 4 of 29 (13.8%) 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: Chikenjars_73 (DJ), Duffington_74 (DJ), Kenosha_73 (DJ), OlgasClover_75 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 20 was manually annotated 1 time for cluster DJ.
- Start number 21 was manually annotated 9 times for cluster DJ.
- Start number 22 was manually annotated 8 times for cluster DJ.
- Start number 23 was manually annotated 4 times for cluster DJ.

Gene Information:

Gene: AlainaMarie_73 Start: 50890, Stop: 51117, Start Num: 22

Candidate Starts for AlainaMarie_73:

(17, 50857), (Start: 22 @50890 has 8 MA's), (25, 50926), (26, 50929), (30, 50965), (33, 51004),

Gene: Artorias_76 Start: 50584, Stop: 50784, Start Num: 21

Candidate Starts for Artorias_76:

(Start: 21 @50584 has 9 MA's), (29, 50656), (31, 50668), (35, 50722),

Gene: Avazak_77 Start: 51266, Stop: 51466, Start Num: 21

Candidate Starts for Avazak_77:

(Start: 21 @51266 has 9 MA's), (29, 51338), (35, 51404),

Gene: Burley_74 Start: 50340, Stop: 50570, Start Num: 22

Candidate Starts for Burley_74:

(1, 50082), (2, 50106), (4, 50118), (10, 50262), (12, 50274), (Start: 22 @50340 has 8 MA's), (25, 50376), (26, 50379), (33, 50454), (36, 50523),

Gene: Captrips_76 Start: 50414, Stop: 50614, Start Num: 21

Candidate Starts for Captrips_76:

(Start: 21 @50414 has 9 MA's), (29, 50486), (35, 50552),

Gene: Capybara_75 Start: 50251, Stop: 50451, Start Num: 21

Candidate Starts for Capybara_75:

(Start: 21 @50251 has 9 MA's), (29, 50323), (31, 50335),

Gene: Chikenjars_73 Start: 51135, Stop: 51365, Start Num: 23

Candidate Starts for Chikenjars_73:

(16, 51099), (Start: 23 @51135 has 4 MA's), (25, 51171), (26, 51174), (32, 51222), (33, 51249),

Gene: Conley_74 Start: 50831, Stop: 51028, Start Num: 20

Candidate Starts for Conley_74:

(9, 50750), (11, 50762), (Start: 20 @50831 has 1 MA's), (24, 50867), (29, 50900), (31, 50912),

Gene: Duffington_74 Start: 51067, Stop: 51279, Start Num: 23

Candidate Starts for Duffington_74:

(14, 51016), (16, 51031), (Start: 23 @51067 has 4 MA's), (27, 51127), (34, 51202), (37, 51256),

Gene: EndAve_75 Start: 51080, Stop: 51307, Start Num: 22

Candidate Starts for EndAve_75:

(17, 51047), (Start: 22 @51080 has 8 MA's), (25, 51116), (26, 51119), (27, 51140), (33, 51194),

Gene: FortCran_81 Start: 50584, Stop: 50784, Start Num: 21

Candidate Starts for FortCran_81:

(Start: 21 @50584 has 9 MA's), (29, 50656), (31, 50668), (35, 50722),

Gene: Gill_74 Start: 50263, Stop: 50463, Start Num: 21

Candidate Starts for Gill_74:

(Start: 21 @50263 has 9 MA's), (29, 50335), (31, 50347),

Gene: Gravy_73 Start: 49941, Stop: 50141, Start Num: 21

Candidate Starts for Gravy_73:

(Start: 21 @49941 has 9 MA's), (29, 50013), (31, 50025),

Gene: Kenosha_73 Start: 50932, Stop: 51162, Start Num: 23

Candidate Starts for Kenosha_73:

(17, 50899), (19, 50911), (Start: 23 @50932 has 4 MA's), (25, 50968), (26, 50971), (28, 50995), (33, 51046), (36, 51115),

Gene: Kerry_73 Start: 50004, Stop: 50204, Start Num: 21

Candidate Starts for Kerry_73:

(Start: 21 @50004 has 9 MA's), (29, 50076), (31, 50088),

Gene: Madvan_72 Start: 50396, Stop: 50626, Start Num: 22

Candidate Starts for Madvan_72:

(1, 50138), (3, 50168), (4, 50174), (10, 50318), (12, 50330), (Start: 22 @50396 has 8 MA's), (25, 50432), (26, 50435), (33, 50510), (36, 50579),

Gene: Magel_75 Start: 50178, Stop: 50378, Start Num: 21

Candidate Starts for Magel_75:

(Start: 21 @50178 has 9 MA's), (29, 50250), (31, 50262),

Gene: Nithya_73 Start: 50778, Stop: 51005, Start Num: 22

Candidate Starts for Nithya_73:

(17, 50745), (Start: 22 @50778 has 8 MA's), (25, 50814), (26, 50817), (30, 50853), (33, 50892),

Gene: Odesza_73 Start: 50122, Stop: 50322, Start Num: 21

Candidate Starts for Odesza_73:

(Start: 21 @50122 has 9 MA's), (29, 50194), (31, 50206),

Gene: OlgasClover_75 Start: 51639, Stop: 51869, Start Num: 23

Candidate Starts for OlgasClover_75:

(14, 51588), (16, 51603), (Start: 23 @51639 has 4 MA's), (25, 51675), (26, 51678), (29, 51705), (32, 51726), (33, 51753), (36, 51822),

Gene: Perkunas_78 Start: 50320, Stop: 50520, Start Num: 21

Candidate Starts for Perkunas_78:

(2, 50089), (4, 50101), (5, 50104), (6, 50107), (7, 50179), (8, 50191), (13, 50260), (15, 50284), (18, 50302), (Start: 21 @50320 has 9 MA's), (27, 50386), (29, 50392), (31, 50404),

Gene: Petite_77 Start: 51778, Stop: 51978, Start Num: 21

Candidate Starts for Petite_77:

(Start: 21 @51778 has 9 MA's), (24, 51817), (29, 51850), (31, 51862),

Gene: Phepper_75 Start: 50638, Stop: 50868, Start Num: 22

Candidate Starts for Phepper_75:

(1, 50380), (3, 50410), (4, 50416), (10, 50560), (12, 50572), (Start: 22 @50638 has 8 MA's), (25, 50674), (26, 50677), (33, 50752), (36, 50821),

Gene: Roney_74 Start: 50288, Stop: 50488, Start Num: 21

Candidate Starts for Roney_74:

(Start: 21 @50288 has 9 MA's), (29, 50360), (31, 50372),

Gene: Runhaar_73 Start: 50447, Stop: 50677, Start Num: 22

Candidate Starts for Runhaar_73:

(1, 50189), (3, 50219), (4, 50225), (10, 50369), (12, 50381), (Start: 22 @50447 has 8 MA's), (25, 50483), (26, 50486), (33, 50561), (36, 50630),

Gene: Tanis_74 Start: 50108, Stop: 50308, Start Num: 21

Candidate Starts for Tanis_74:

(Start: 21 @50108 has 9 MA's), (29, 50180), (31, 50192),

Gene: Untouchable_76 Start: 51635, Stop: 51865, Start Num: 22

Candidate Starts for Untouchable_76:

(1, 51377), (3, 51407), (4, 51413), (10, 51557), (12, 51569), (Start: 22 @51635 has 8 MA's), (25, 51671), (26, 51674), (33, 51749), (36, 51818),

Gene: Vardy_73 Start: 50334, Stop: 50564, Start Num: 22

Candidate Starts for Vardy_73:

(1, 50076), (2, 50100), (3, 50106), (4, 50112), (10, 50256), (12, 50268), (Start: 22 @50334 has 8 MA's), (25, 50370), (26, 50373), (33, 50448), (36, 50517),

Gene: Zeph_79 Start: 51472, Stop: 51702, Start Num: 22

Candidate Starts for Zeph_79:

(1, 51214), (4, 51250), (10, 51394), (12, 51406), (Start: 22 @51472 has 8 MA's), (25, 51508), (26, 51511), (33, 51586), (36, 51655),