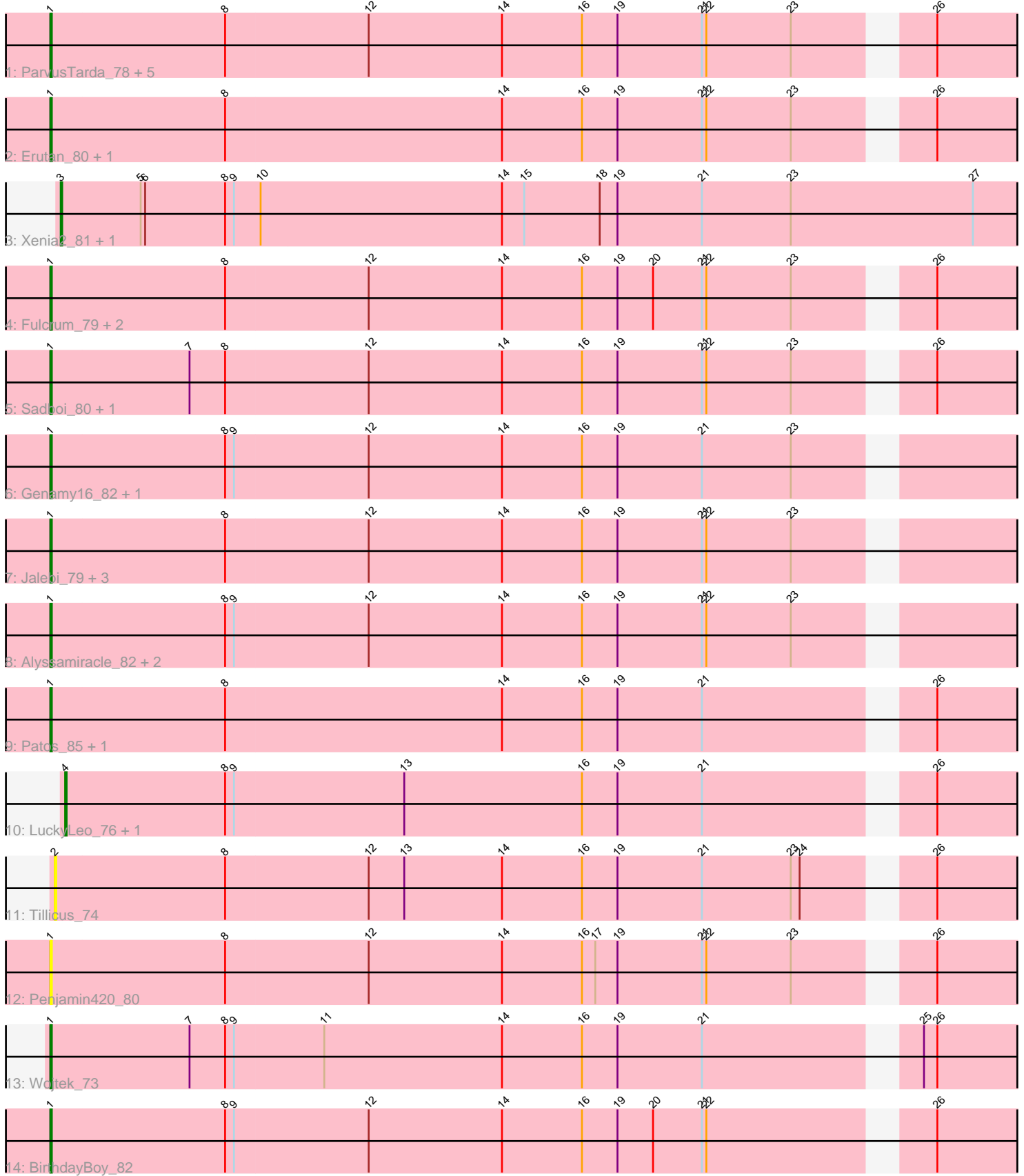


Pham 86292



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 86292 Report

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

Pham number 86292 has 32 members, 7 are drafts.

Phages represented in each track:

- Track 1 : ParvusTarda_78, Lambo_78, Gibbin_82, Lila22_84, Yikes_81, OtterstedtS21_80
- Track 2 : Erutan_80, Ranch_81
- Track 3 : Xenia2_81, DumpTruck_81
- Track 4 : Fulcrum_79, MoiGyank_85, GOATification_79
- Track 5 : Sadboi_80, GretelLyn_80
- Track 6 : Genamy16_82, Avian_79
- Track 7 : Jalebi_79, DoobyDoo_77, Sampudon_81, Zany_77
- Track 8 : Alyssamiracle_82, NovaSharks_81, Rumi_80
- Track 9 : Patos_85, NorManre_85
- Track 10 : LuckyLeo_76, Apeppi_74
- Track 11 : Tillicus_74
- Track 12 : Penjamin420_80
- Track 13 : Wojtek_73
- Track 14 : BirthdayBoy_82

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

The start number called the most often in the published annotations is 1, it was called in 22 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle_82, Avian_79, BirthdayBoy_82, DoobyDoo_77, Erutan_80, Fulcrum_79, GOATification_79, Genamy16_82, Gibbin_82, GretelLyn_80, Jalebi_79, Lambo_78, Lila22_84, MoiGyank_85, NorManre_85, NovaSharks_81, OtterstedtS21_80, ParvusTarda_78, Patos_85, Penjamin420_80, Ranch_81, Rumi_80, Sadboi_80, Sampudon_81, Wojtek_73, Yikes_81, Zany_77,

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

-

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

- Apeppi_74, DumpTruck_81, LuckyLeo_76, Tillicus_74, Xenia2_81,

Summary by start number:

Start 1:

- Found in 27 of 32 (84.4%) of genes in pham
- Manual Annotations of this start: 22 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alyssamiracle_82 (DV), Avian_79 (DV), BirthdayBoy_82 (DV), DoobyDoo_77 (DV), Erutan_80 (DV), Fulcrum_79 (DV), GOATification_79 (DV), Genamy16_82 (DV), Gibbin_82 (DV), GretelLyn_80 (DV), Jalebi_79 (DV), Lambo_78 (DV), Lila22_84 (DV), MoiGyank_85 (DV), NorManre_85 (DV), NovaSharks_81 (DV), OtterstedtS21_80 (DV), ParvusTarda_78 (DV), Patos_85 (DV), Penjamin420_80 (DV), Ranch_81 (DV), Rumi_80 (DV), Sadboi_80 (DV), Sampudon_81 (DV), Wojtek_73 (DV), Yikes_81 (DV), Zany_77 (DV),

Start 2:

- Found in 1 of 32 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tillicus_74 (DV),

Start 3:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DumpTruck_81 (DV), Xenia2_81 (DV),

Start 4:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apeppi_74 (DV), LuckyLeo_76 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 1 was manually annotated 22 times for cluster DV.
- Start number 3 was manually annotated 2 times for cluster DV.
- Start number 4 was manually annotated 1 time for cluster DV.

Gene Information:

Gene: Alyssamiracle_82 Start: 54053, Stop: 54685, Start Num: 1

Candidate Starts for Alyssamiracle_82:

(Start: 1 @54053 has 22 MA's), (8, 54170), (9, 54176), (12, 54266), (14, 54356), (16, 54410), (19, 54434), (21, 54491), (22, 54494), (23, 54551),

Gene: Apeppi_74 Start: 54536, Stop: 55159, Start Num: 4

Candidate Starts for Apeppi_74:

(Start: 4 @54536 has 1 MA's), (8, 54644), (9, 54650), (13, 54764), (16, 54884), (19, 54908), (21, 54965), (26, 55100),

Gene: Avian_79 Start: 53781, Stop: 54413, Start Num: 1

Candidate Starts for Avian_79:

(Start: 1 @53781 has 22 MA's), (8, 53898), (9, 53904), (12, 53994), (14, 54084), (16, 54138), (19, 54162), (21, 54219), (23, 54279),

Gene: BirthdayBoy_82 Start: 55695, Stop: 56327, Start Num: 1

Candidate Starts for BirthdayBoy_82:

(Start: 1 @55695 has 22 MA's), (8, 55812), (9, 55818), (12, 55908), (14, 55998), (16, 56052), (19, 56076), (20, 56100), (21, 56133), (22, 56136), (26, 56268),

Gene: DoobyDoo_77 Start: 54163, Stop: 54795, Start Num: 1

Candidate Starts for DoobyDoo_77:

(Start: 1 @54163 has 22 MA's), (8, 54280), (12, 54376), (14, 54466), (16, 54520), (19, 54544), (21, 54601), (22, 54604), (23, 54661),

Gene: DumpTruck_81 Start: 54812, Stop: 55468, Start Num: 3

Candidate Starts for DumpTruck_81:

(Start: 3 @54812 has 2 MA's), (5, 54866), (6, 54869), (8, 54923), (9, 54929), (10, 54947), (14, 55109), (15, 55124), (18, 55175), (19, 55187), (21, 55244), (23, 55304), (27, 55427),

Gene: Erutan_80 Start: 55280, Stop: 55912, Start Num: 1

Candidate Starts for Erutan_80:

(Start: 1 @55280 has 22 MA's), (8, 55397), (14, 55583), (16, 55637), (19, 55661), (21, 55718), (22, 55721), (23, 55778), (26, 55853),

Gene: Fulcrum_79 Start: 55048, Stop: 55680, Start Num: 1

Candidate Starts for Fulcrum_79:

(Start: 1 @55048 has 22 MA's), (8, 55165), (12, 55261), (14, 55351), (16, 55405), (19, 55429), (20, 55453), (21, 55486), (22, 55489), (23, 55546), (26, 55621),

Gene: GOATification_79 Start: 55048, Stop: 55680, Start Num: 1

Candidate Starts for GOATification_79:

(Start: 1 @55048 has 22 MA's), (8, 55165), (12, 55261), (14, 55351), (16, 55405), (19, 55429), (20, 55453), (21, 55486), (22, 55489), (23, 55546), (26, 55621),

Gene: Genamy16_82 Start: 54039, Stop: 54671, Start Num: 1

Candidate Starts for Genamy16_82:

(Start: 1 @54039 has 22 MA's), (8, 54156), (9, 54162), (12, 54252), (14, 54342), (16, 54396), (19, 54420), (21, 54477), (23, 54537),

Gene: Gibbin_82 Start: 55853, Stop: 56485, Start Num: 1

Candidate Starts for Gibbin_82:

(Start: 1 @55853 has 22 MA's), (8, 55970), (12, 56066), (14, 56156), (16, 56210), (19, 56234), (21, 56291), (22, 56294), (23, 56351), (26, 56426),

Gene: Gretellyn_80 Start: 55682, Stop: 56314, Start Num: 1

Candidate Starts for Gretellyn_80:

(Start: 1 @55682 has 22 MA's), (7, 55775), (8, 55799), (12, 55895), (14, 55985), (16, 56039), (19, 56063), (21, 56120), (22, 56123), (23, 56180), (26, 56255),

Gene: Jalebi_79 Start: 56275, Stop: 56907, Start Num: 1

Candidate Starts for Jalebi_79:

(Start: 1 @56275 has 22 MA's), (8, 56392), (12, 56488), (14, 56578), (16, 56632), (19, 56656), (21, 56713), (22, 56716), (23, 56773),

Gene: Lambo_78 Start: 54845, Stop: 55477, Start Num: 1

Candidate Starts for Lambo_78:

(Start: 1 @54845 has 22 MA's), (8, 54962), (12, 55058), (14, 55148), (16, 55202), (19, 55226), (21, 55283), (22, 55286), (23, 55343), (26, 55418),

Gene: Lila22_84 Start: 55753, Stop: 56385, Start Num: 1

Candidate Starts for Lila22_84:

(Start: 1 @55753 has 22 MA's), (8, 55870), (12, 55966), (14, 56056), (16, 56110), (19, 56134), (21, 56191), (22, 56194), (23, 56251), (26, 56326),

Gene: LuckyLeo_76 Start: 54536, Stop: 55159, Start Num: 4

Candidate Starts for LuckyLeo_76:

(Start: 4 @54536 has 1 MA's), (8, 54644), (9, 54650), (13, 54764), (16, 54884), (19, 54908), (21, 54965), (26, 55100),

Gene: MoiGyank_85 Start: 55829, Stop: 56461, Start Num: 1

Candidate Starts for MoiGyank_85:

(Start: 1 @55829 has 22 MA's), (8, 55946), (12, 56042), (14, 56132), (16, 56186), (19, 56210), (20, 56234), (21, 56267), (22, 56270), (23, 56327), (26, 56402),

Gene: NorManre_85 Start: 56582, Stop: 57211, Start Num: 1

Candidate Starts for NorManre_85:

(Start: 1 @56582 has 22 MA's), (8, 56699), (14, 56885), (16, 56939), (19, 56963), (21, 57020), (26, 57155),

Gene: NovaSharks_81 Start: 53742, Stop: 54374, Start Num: 1

Candidate Starts for NovaSharks_81:

(Start: 1 @53742 has 22 MA's), (8, 53859), (9, 53865), (12, 53955), (14, 54045), (16, 54099), (19, 54123), (21, 54180), (22, 54183), (23, 54240),

Gene: OtterstedtS21_80 Start: 55254, Stop: 55886, Start Num: 1

Candidate Starts for OtterstedtS21_80:

(Start: 1 @55254 has 22 MA's), (8, 55371), (12, 55467), (14, 55557), (16, 55611), (19, 55635), (21, 55692), (22, 55695), (23, 55752), (26, 55827),

Gene: ParvusTarda_78 Start: 54524, Stop: 55156, Start Num: 1

Candidate Starts for ParvusTarda_78:

(Start: 1 @54524 has 22 MA's), (8, 54641), (12, 54737), (14, 54827), (16, 54881), (19, 54905), (21, 54962), (22, 54965), (23, 55022), (26, 55097),

Gene: Patos_85 Start: 56581, Stop: 57210, Start Num: 1

Candidate Starts for Patos_85:

(Start: 1 @56581 has 22 MA's), (8, 56698), (14, 56884), (16, 56938), (19, 56962), (21, 57019), (26, 57154),

Gene: Penjamin420_80 Start: 55279, Stop: 55911, Start Num: 1

Candidate Starts for Penjamin420_80:

(Start: 1 @55279 has 22 MA's), (8, 55396), (12, 55492), (14, 55582), (16, 55636), (17, 55645), (19, 55660), (21, 55717), (22, 55720), (23, 55777), (26, 55852),

Gene: Ranch_81 Start: 54341, Stop: 54973, Start Num: 1

Candidate Starts for Ranch_81:

(Start: 1 @54341 has 22 MA's), (8, 54458), (14, 54644), (16, 54698), (19, 54722), (21, 54779), (22, 54782), (23, 54839), (26, 54914),

Gene: Rumi_80 Start: 53327, Stop: 53959, Start Num: 1

Candidate Starts for Rumi_80:

(Start: 1 @53327 has 22 MA's), (8, 53444), (9, 53450), (12, 53540), (14, 53630), (16, 53684), (19, 53708), (21, 53765), (22, 53768), (23, 53825),

Gene: Sadboi_80 Start: 55683, Stop: 56315, Start Num: 1

Candidate Starts for Sadboi_80:

(Start: 1 @55683 has 22 MA's), (7, 55776), (8, 55800), (12, 55896), (14, 55986), (16, 56040), (19, 56064), (21, 56121), (22, 56124), (23, 56181), (26, 56256),

Gene: Sampudon_81 Start: 56275, Stop: 56907, Start Num: 1

Candidate Starts for Sampudon_81:

(Start: 1 @56275 has 22 MA's), (8, 56392), (12, 56488), (14, 56578), (16, 56632), (19, 56656), (21, 56713), (22, 56716), (23, 56773),

Gene: Tillicus_74 Start: 54485, Stop: 55114, Start Num: 2

Candidate Starts for Tillicus_74:

(2, 54485), (8, 54599), (12, 54695), (13, 54719), (14, 54785), (16, 54839), (19, 54863), (21, 54920), (23, 54980), (24, 54986), (26, 55055),

Gene: Wojtek_73 Start: 55365, Stop: 55994, Start Num: 1

Candidate Starts for Wojtek_73:

(Start: 1 @55365 has 22 MA's), (7, 55458), (8, 55482), (9, 55488), (11, 55548), (14, 55668), (16, 55722), (19, 55746), (21, 55803), (25, 55929), (26, 55938),

Gene: Xenia2_81 Start: 55179, Stop: 55835, Start Num: 3

Candidate Starts for Xenia2_81:

(Start: 3 @55179 has 2 MA's), (5, 55233), (6, 55236), (8, 55290), (9, 55296), (10, 55314), (14, 55476), (15, 55491), (18, 55542), (19, 55554), (21, 55611), (23, 55671), (27, 55794),

Gene: Yikes_81 Start: 56129, Stop: 56761, Start Num: 1

Candidate Starts for Yikes_81:

(Start: 1 @56129 has 22 MA's), (8, 56246), (12, 56342), (14, 56432), (16, 56486), (19, 56510), (21, 56567), (22, 56570), (23, 56627), (26, 56702),

Gene: Zany_77 Start: 55582, Stop: 56214, Start Num: 1

Candidate Starts for Zany_77:

(Start: 1 @55582 has 22 MA's), (8, 55699), (12, 55795), (14, 55885), (16, 55939), (19, 55963), (21, 56020), (22, 56023), (23, 56080),