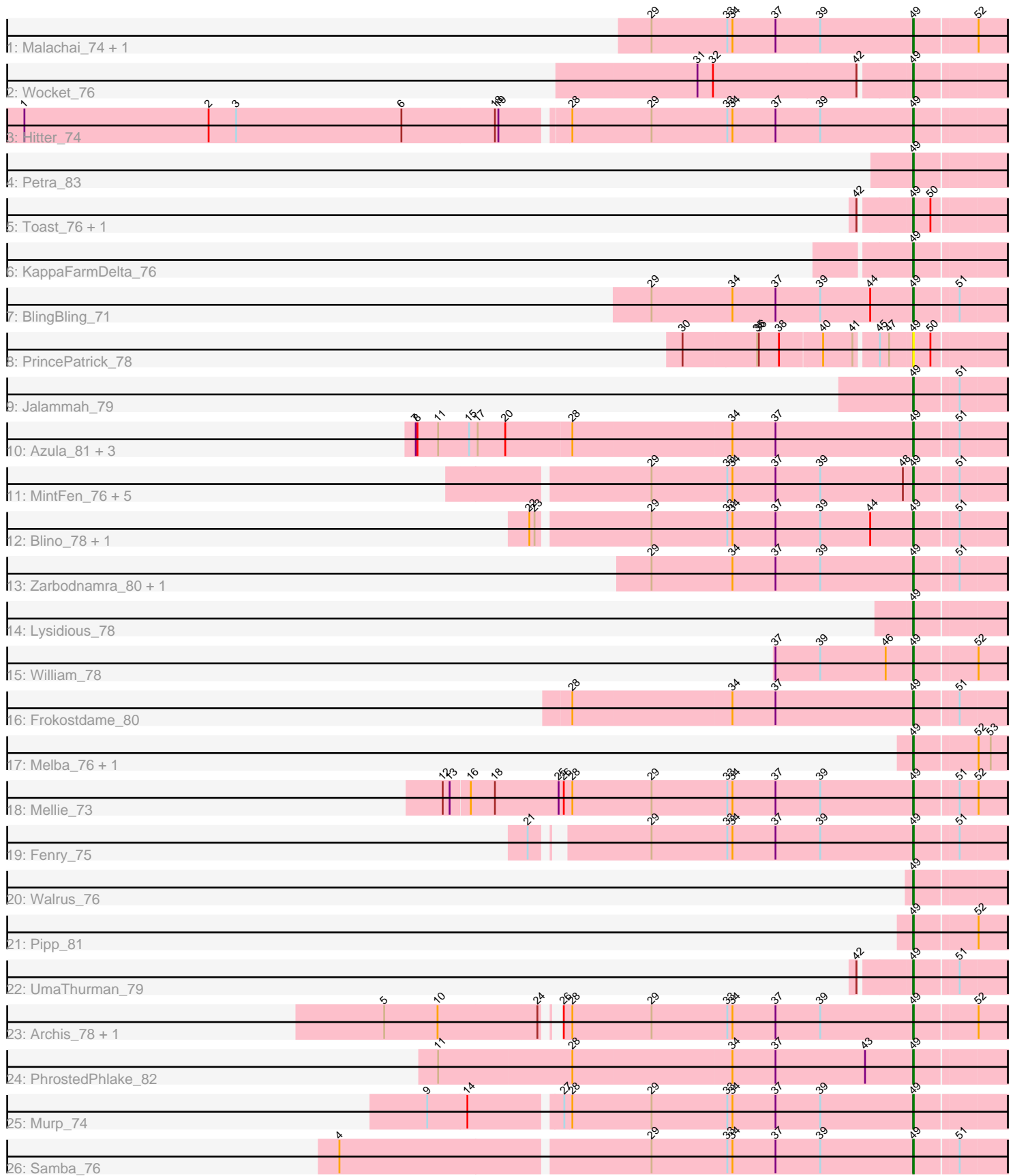


Pham 2187



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 2187 Report

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

Pham number 2187 has 40 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Malachai_74, Begonia_74
- Track 2 : Wocket_76
- Track 3 : Hitter_74
- Track 4 : Petra_83
- Track 5 : Toast_76, Fairfaxidum_79
- Track 6 : KappaFarmDelta_76
- Track 7 : BlingBling_71
- Track 8 : PrincePatrick_78
- Track 9 : Jalammah_79
- Track 10 : Azula_81, Gambino_83, Blueberry_80, MissRona_81
- Track 11 : MintFen_76, Guacamole_74, JasperJr_74, Delian_79, CaptainKirk2_76, Barco_73
- Track 12 : Blino_78, CarolAnn_77
- Track 13 : Zarbodnamra_80, JuJu_83
- Track 14 : Lysidious_78
- Track 15 : William_78
- Track 16 : Frokostdame_80
- Track 17 : Melba_76, Obliviate_76
- Track 18 : Mellie_73
- Track 19 : Fenry_75
- Track 20 : Walrus_76
- Track 21 : Pipp_81
- Track 22 : UmaThurman_79
- Track 23 : Archis_78, ZiggyZoo_77
- Track 24 : PhrostedPhlake_82
- Track 25 : Murp_74
- Track 26 : Samba_76

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

The start number called the most often in the published annotations is 49, it was called in 39 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archis_78, Azula_81, Barco_73, Begonia_74, BlingBling_71, Blino_78, Blueberry_80, CaptainKirk2_76, CarolAnn_77, Delian_79, Fairfaxidum_79, Fenry_75, Frokostdame_80, Gambino_83, Guacamole_74, Hitter_74, Jalammah_79, JasperJr_74, JuJu_83, KappaFarmDelta_76, Lysidious_78, Malachai_74, Melba_76, Mellie_73, MintFen_76, MissRona_81, Murp_74, Obliviate_76, Petra_83, PhrostedPhlake_82, Pipp_81, PrincePatrick_78, Samba_76, Toast_76, UmaThurman_79, Walrus_76, William_78, Wocket_76, Zarbodnamra_80, ZiggyZoo_77,

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

-

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

-

Summary by start number:

Start 49:

- Found in 40 of 40 (100.0%) of genes in pham
- Manual Annotations of this start: 39 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archis_78 (CV), Azula_81 (CV), Barco_73 (CV), Begonia_74 (CV), BlingBling_71 (CV), Blino_78 (CV), Blueberry_80 (CV), CaptainKirk2_76 (CV), CarolAnn_77 (CV), Delian_79 (CV), Fairfaxidum_79 (CV), Fenry_75 (CV), Frokostdame_80 (CV), Gambino_83 (CV), Guacamole_74 (CV), Hitter_74 (CV), Jalammah_79 (CV), JasperJr_74 (CV), JuJu_83 (CV), KappaFarmDelta_76 (CV), Lysidious_78 (CV), Malachai_74 (CV), Melba_76 (CV), Mellie_73 (CV), MintFen_76 (CV), MissRona_81 (CV), Murp_74 (CV), Obliviate_76 (CV), Petra_83 (CV), PhrostedPhlake_82 (CV), Pipp_81 (CV), PrincePatrick_78 (CV), Samba_76 (CV), Toast_76 (CV), UmaThurman_79 (CV), Walrus_76 (CV), William_78 (CV), Wocket_76 (CV), Zarbodnamra_80 (CV), ZiggyZoo_77 (CV),

Summary by clusters:

There is one cluster represented in this pham: CV

Info for manual annotations of cluster CV:

- Start number 49 was manually annotated 39 times for cluster CV.

Gene Information:

Gene: Archis_78 Start: 46447, Stop: 46632, Start Num: 49

Candidate Starts for Archis_78:

(5, 45571), (10, 45661), (24, 45832), (26, 45838), (28, 45853), (29, 45991), (33, 46123), (34, 46132), (37, 46207), (39, 46285), (Start: 49 @46447 has 39 MA's), (52, 46549),

Gene: Azula_81 Start: 50627, Stop: 50842, Start Num: 49

Candidate Starts for Azula_81:

(7, 49769), (8, 49772), (11, 49808), (15, 49862), (17, 49877), (20, 49925), (28, 50039), (34, 50312), (37, 50387), (Start: 49 @50627 has 39 MA's), (51, 50699),

Gene: Barco_73 Start: 46258, Stop: 46446, Start Num: 49
Candidate Starts for Barco_73:
(29, 45802), (33, 45934), (34, 45943), (37, 46018), (39, 46096), (48, 46240), (Start: 49 @46258 has 39 MA's), (51, 46333),

Gene: Begonia_74 Start: 49058, Stop: 49243, Start Num: 49
Candidate Starts for Begonia_74:
(29, 48602), (33, 48734), (34, 48743), (37, 48818), (39, 48896), (Start: 49 @49058 has 39 MA's), (52, 49160),

Gene: BlingBling_71 Start: 46033, Stop: 46218, Start Num: 49
Candidate Starts for BlingBling_71:
(29, 45577), (34, 45718), (37, 45793), (39, 45871), (44, 45958), (Start: 49 @46033 has 39 MA's), (51, 46105),

Gene: Blino_78 Start: 51862, Stop: 52047, Start Num: 49
Candidate Starts for Blino_78:
(22, 51211), (23, 51220), (29, 51406), (33, 51538), (34, 51547), (37, 51622), (39, 51700), (44, 51787), (Start: 49 @51862 has 39 MA's), (51, 51934),

Gene: Blueberry_80 Start: 50627, Stop: 50842, Start Num: 49
Candidate Starts for Blueberry_80:
(7, 49769), (8, 49772), (11, 49808), (15, 49862), (17, 49877), (20, 49925), (28, 50039), (34, 50312), (37, 50387), (Start: 49 @50627 has 39 MA's), (51, 50699),

Gene: CaptainKirk2_76 Start: 45815, Stop: 46003, Start Num: 49
Candidate Starts for CaptainKirk2_76:
(29, 45359), (33, 45491), (34, 45500), (37, 45575), (39, 45653), (48, 45797), (Start: 49 @45815 has 39 MA's), (51, 45890),

Gene: CarolAnn_77 Start: 51861, Stop: 52046, Start Num: 49
Candidate Starts for CarolAnn_77:
(22, 51210), (23, 51219), (29, 51405), (33, 51537), (34, 51546), (37, 51621), (39, 51699), (44, 51786), (Start: 49 @51861 has 39 MA's), (51, 51933),

Gene: Delian_79 Start: 45813, Stop: 46001, Start Num: 49
Candidate Starts for Delian_79:
(29, 45357), (33, 45489), (34, 45498), (37, 45573), (39, 45651), (48, 45795), (Start: 49 @45813 has 39 MA's), (51, 45888),

Gene: Fairfaxidum_79 Start: 48515, Stop: 48697, Start Num: 49
Candidate Starts for Fairfaxidum_79:
(42, 48434), (Start: 49 @48515 has 39 MA's), (50, 48545),

Gene: Fenry_75 Start: 47886, Stop: 48071, Start Num: 49
Candidate Starts for Fenry_75:
(21, 47262), (29, 47430), (33, 47562), (34, 47571), (37, 47646), (39, 47724), (Start: 49 @47886 has 39 MA's), (51, 47958),

Gene: Frokostdame_80 Start: 50092, Stop: 50307, Start Num: 49
Candidate Starts for Frokostdame_80:
(28, 49504), (34, 49777), (37, 49852), (Start: 49 @50092 has 39 MA's), (51, 50164),

Gene: Gambino_83 Start: 50627, Stop: 50842, Start Num: 49

Candidate Starts for Gambino_83:

(7, 49769), (8, 49772), (11, 49808), (15, 49862), (17, 49877), (20, 49925), (28, 50039), (34, 50312), (37, 50387), (Start: 49 @50627 has 39 MA's), (51, 50699),

Gene: Guacamole_74 Start: 47233, Stop: 47421, Start Num: 49

Candidate Starts for Guacamole_74:

(29, 46777), (33, 46909), (34, 46918), (37, 46993), (39, 47071), (48, 47215), (Start: 49 @47233 has 39 MA's), (51, 47308),

Gene: Hitter_74 Start: 45492, Stop: 45677, Start Num: 49

Candidate Starts for Hitter_74:

(1, 43968), (2, 44289), (3, 44337), (6, 44625), (18, 44787), (19, 44793), (28, 44898), (29, 45036), (33, 45168), (34, 45177), (37, 45252), (39, 45330), (Start: 49 @45492 has 39 MA's),

Gene: Jalammah_79 Start: 49398, Stop: 49583, Start Num: 49

Candidate Starts for Jalammah_79:

(Start: 49 @49398 has 39 MA's), (51, 49470),

Gene: JasperJr_74 Start: 47233, Stop: 47421, Start Num: 49

Candidate Starts for JasperJr_74:

(29, 46777), (33, 46909), (34, 46918), (37, 46993), (39, 47071), (48, 47215), (Start: 49 @47233 has 39 MA's), (51, 47308),

Gene: JuJu_83 Start: 50859, Stop: 51074, Start Num: 49

Candidate Starts for JuJu_83:

(29, 50403), (34, 50544), (37, 50619), (39, 50697), (Start: 49 @50859 has 39 MA's), (51, 50931),

Gene: KappaFarmDelta_76 Start: 47078, Stop: 47263, Start Num: 49

Candidate Starts for KappaFarmDelta_76:

(Start: 49 @47078 has 39 MA's),

Gene: Lysidious_78 Start: 48146, Stop: 48331, Start Num: 49

Candidate Starts for Lysidious_78:

(Start: 49 @48146 has 39 MA's),

Gene: Malachai_74 Start: 49058, Stop: 49243, Start Num: 49

Candidate Starts for Malachai_74:

(29, 48602), (33, 48734), (34, 48743), (37, 48818), (39, 48896), (Start: 49 @49058 has 39 MA's), (52, 49160),

Gene: Melba_76 Start: 46193, Stop: 46378, Start Num: 49

Candidate Starts for Melba_76:

(Start: 49 @46193 has 39 MA's), (52, 46295), (53, 46316),

Gene: Mellie_73 Start: 46210, Stop: 46395, Start Num: 49

Candidate Starts for Mellie_73:

(12, 45394), (13, 45406), (16, 45439), (18, 45481), (25, 45592), (26, 45601), (28, 45616), (29, 45754), (33, 45886), (34, 45895), (37, 45970), (39, 46048), (Start: 49 @46210 has 39 MA's), (51, 46282), (52, 46312),

Gene: MintFen_76 Start: 46429, Stop: 46617, Start Num: 49

Candidate Starts for MintFen_76:

(29, 45973), (33, 46105), (34, 46114), (37, 46189), (39, 46267), (48, 46411), (Start: 49 @46429 has 39 MA's), (51, 46504),

Gene: MissRona_81 Start: 50628, Stop: 50843, Start Num: 49

Candidate Starts for MissRona_81:

(7, 49770), (8, 49773), (11, 49809), (15, 49863), (17, 49878), (20, 49926), (28, 50040), (34, 50313), (37, 50388), (Start: 49 @50628 has 39 MA's), (51, 50700),

Gene: Murp_74 Start: 49309, Stop: 49494, Start Num: 49

Candidate Starts for Murp_74:

(9, 48484), (14, 48553), (27, 48703), (28, 48715), (29, 48853), (33, 48985), (34, 48994), (37, 49069), (39, 49147), (Start: 49 @49309 has 39 MA's),

Gene: Obliviate_76 Start: 46744, Stop: 46935, Start Num: 49

Candidate Starts for Obliviate_76:

(Start: 49 @46744 has 39 MA's), (52, 46852), (53, 46873),

Gene: Petra_83 Start: 49306, Stop: 49491, Start Num: 49

Candidate Starts for Petra_83:

(Start: 49 @49306 has 39 MA's),

Gene: PhrostedPhlake_82 Start: 48889, Stop: 49074, Start Num: 49

Candidate Starts for PhrostedPhlake_82:

(11, 48070), (28, 48301), (34, 48574), (37, 48649), (43, 48805), (Start: 49 @48889 has 39 MA's),

Gene: Pipp_81 Start: 48711, Stop: 48896, Start Num: 49

Candidate Starts for Pipp_81:

(Start: 49 @48711 has 39 MA's), (52, 48813),

Gene: PrincePatrick_78 Start: 47165, Stop: 47347, Start Num: 49

Candidate Starts for PrincePatrick_78:

(30, 46793), (35, 46919), (36, 46922), (38, 46955), (40, 47027), (41, 47075), (45, 47111), (47, 47126), (Start: 49 @47165 has 39 MA's), (50, 47195),

Gene: Samba_76 Start: 49343, Stop: 49528, Start Num: 49

Candidate Starts for Samba_76:

(4, 48365), (29, 48887), (33, 49019), (34, 49028), (37, 49103), (39, 49181), (Start: 49 @49343 has 39 MA's), (51, 49415),

Gene: Toast_76 Start: 47345, Stop: 47527, Start Num: 49

Candidate Starts for Toast_76:

(42, 47264), (Start: 49 @47345 has 39 MA's), (50, 47375),

Gene: UmaThurman_79 Start: 47479, Stop: 47664, Start Num: 49

Candidate Starts for UmaThurman_79:

(42, 47395), (Start: 49 @47479 has 39 MA's), (51, 47551),

Gene: Walrus_76 Start: 48167, Stop: 48352, Start Num: 49

Candidate Starts for Walrus_76:

(Start: 49 @48167 has 39 MA's),

Gene: William_78 Start: 48411, Stop: 48599, Start Num: 49

Candidate Starts for William_78:

(37, 48171), (39, 48249), (46, 48363), (Start: 49 @48411 has 39 MA's), (52, 48516),

Gene: Wocket_76 Start: 47715, Stop: 47900, Start Num: 49

Candidate Starts for Wocket_76:

(31, 47358), (32, 47385), (42, 47631), (Start: 49 @47715 has 39 MA's),

Gene: Zarbodnamra_80 Start: 47425, Stop: 47610, Start Num: 49

Candidate Starts for Zarbodnamra_80:

(29, 46969), (34, 47110), (37, 47185), (39, 47263), (Start: 49 @47425 has 39 MA's), (51, 47497),

Gene: ZiggyZoo_77 Start: 48911, Stop: 49096, Start Num: 49

Candidate Starts for ZiggyZoo_77:

(5, 48035), (10, 48125), (24, 48296), (26, 48302), (28, 48317), (29, 48455), (33, 48587), (34, 48596),
(37, 48671), (39, 48749), (Start: 49 @48911 has 39 MA's), (52, 49013),