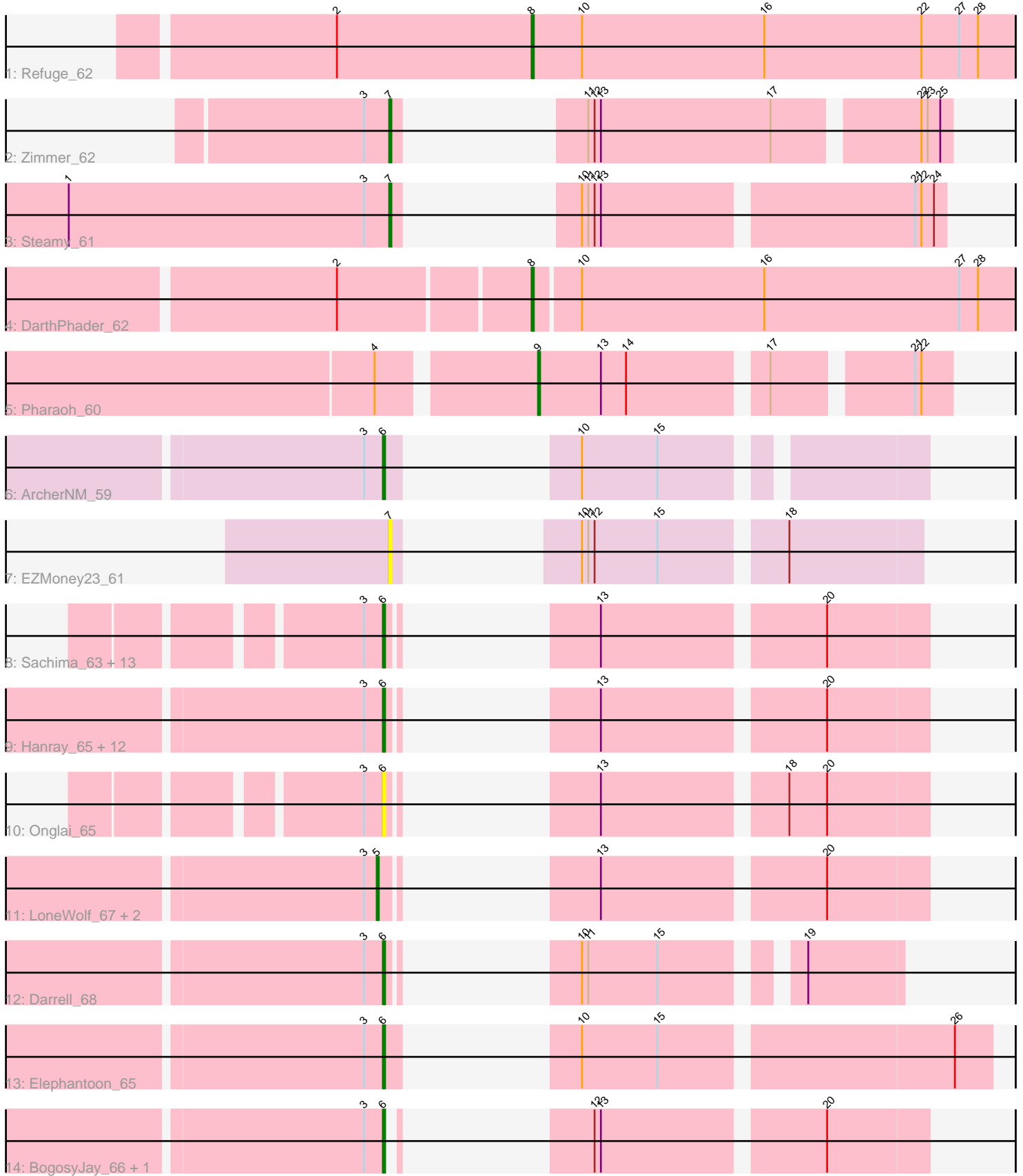


Pham 308849



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 308849 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308849 has 42 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Refuge_62
- Track 2 : Zimmer_62
- Track 3 : Steamy_61
- Track 4 : DarthPhader_62
- Track 5 : Pharaoh_60
- Track 6 : ArcherNM_59
- Track 7 : EZMoney23_61
- Track 8 : Sachima_63, RyeScarlet_69, EdogawaKiddo_65, HortumSL17_68, Tubs_67, Phonnegut_68, Aliter_68, Pioneer_68, Phaeder_67, Lilleskat_63, PackMan_66, Myxus_67, Beemo_68, Catalina_69
- Track 9 : Hanray_65, Jiawan_64, Qobbit_65, ExplosioNervosa_65, EmyBug_64, Eidsmoe_65, Horex_65, Conquerage_65, Alma_65, Spouty_65, Fayely_65, Ayanochan_65, Priya_65
- Track 10 : Onglai_65
- Track 11 : LoneWolf_67, Scherzo_67, Ugenie5_63
- Track 12 : Darrell_68
- Track 13 : Elephantoon_65
- Track 14 : BogosyJay_66, Maminaiaina_66

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 24 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aliter_68, Alma_65, ArcherNM_59, Ayanochan_65, Beemo_68, BogosyJay_66, Catalina_69, Conquerage_65, Darrell_68, EdogawaKiddo_65, Eidsmoe_65, Elephantoon_65, EmyBug_64, ExplosioNervosa_65, Fayely_65, Hanray_65, Horex_65, HortumSL17_68, Jiawan_64, Lilleskat_63, Maminaiaina_66, Myxus_67, Onglai_65, PackMan_66, Phaeder_67, Phonnegut_68, Pioneer_68, Priya_65, Qobbit_65, RyeScarlet_69, Sachima_63, Spouty_65, Tubs_67,

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

-

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

- DARTHPhader_62, EZMoney23_61, LoneWolf_67, Pharaoh_60, Refuge_62, Scherzo_67, Steamy_61, Ugenie5_63, Zimmer_62,

Summary by start number:

Start 5:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LoneWolf_67 (A9), Scherzo_67 (A9), Ugenie5_63 (A9),

Start 6:

- Found in 33 of 42 (78.6%) of genes in pham
- Manual Annotations of this start: 24 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aliter_68 (A9), Alma_65 (A9), ArcherNM_59 (A2), Ayanochan_65 (A9), Beemo_68 (A9), BogosyJay_66 (A9), Catalina_69 (A9), Conquerage_65 (A9), Darrell_68 (A9), EdogawaKiddo_65 (A9), Eidsmoe_65 (A9), Elephantoon_65 (A9), EmyBug_64 (A9), ExplosioNervosa_65 (A9), Fayely_65 (A9), Hanray_65 (A9), Halex_65 (A9), HortumSL17_68 (A9), Jiawan_64 (A9), Lilleskat_63 (A9), Maminiaina_66 (A9), Myxus_67 (A9), Onglai_65 (A9), PackMan_66 (A9), Phaeder_67 (A9), Phonnegut_68 (A9), Pioneer_68 (A9), Priya_65 (A9), Qobbit_65 (A9), RyeScarlet_69 (A9), Sachima_63 (A9), Spouty_65 (A9), Tubs_67 (A9),

Start 7:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EZMoney23_61 (A2), Steamy_61 (A12), Zimmer_62 (A12),

Start 8:

- Found in 2 of 42 (4.8%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DARTHPhader_62 (A12), Refuge_62 (A12),

Start 9:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pharaoh_60 (A12),

Summary by clusters:

There are 3 clusters represented in this pham: A9, A2, A12,

Info for manual annotations of cluster A12:

- Start number 7 was manually annotated 2 times for cluster A12.
- Start number 8 was manually annotated 2 times for cluster A12.
- Start number 9 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:

- Start number 6 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A9:

- Start number 5 was manually annotated 3 times for cluster A9.
- Start number 6 was manually annotated 23 times for cluster A9.

Gene Information:

Gene: Aliter_68 Start: 40509, Stop: 40333, Start Num: 6

Candidate Starts for Aliter_68:

(3, 40518), (Start: 6 @40509 has 24 MA's), (13, 40479), (20, 40380),

Gene: Alma_65 Start: 40404, Stop: 40228, Start Num: 6

Candidate Starts for Alma_65:

(3, 40413), (Start: 6 @40404 has 24 MA's), (13, 40374), (20, 40275),

Gene: ArcherNM_59 Start: 40573, Stop: 40403, Start Num: 6

Candidate Starts for ArcherNM_59:

(3, 40582), (Start: 6 @40573 has 24 MA's), (10, 40549), (15, 40513),

Gene: Ayanochan_65 Start: 40187, Stop: 40011, Start Num: 6

Candidate Starts for Ayanochan_65:

(3, 40196), (Start: 6 @40187 has 24 MA's), (13, 40157), (20, 40058),

Gene: Beemo_68 Start: 40679, Stop: 40503, Start Num: 6

Candidate Starts for Beemo_68:

(3, 40688), (Start: 6 @40679 has 24 MA's), (13, 40649), (20, 40550),

Gene: BogosyJay_66 Start: 40476, Stop: 40303, Start Num: 6

Candidate Starts for BogosyJay_66:

(3, 40485), (Start: 6 @40476 has 24 MA's), (12, 40452), (13, 40449), (20, 40350),

Gene: Catalina_69 Start: 40582, Stop: 40406, Start Num: 6

Candidate Starts for Catalina_69:

(3, 40591), (Start: 6 @40582 has 24 MA's), (13, 40552), (20, 40453),

Gene: Conquerage_65 Start: 40173, Stop: 39997, Start Num: 6

Candidate Starts for Conquerage_65:

(3, 40182), (Start: 6 @40173 has 24 MA's), (13, 40143), (20, 40044),

Gene: Darrell_68 Start: 41001, Stop: 40846, Start Num: 6

Candidate Starts for Darrell_68:

(3, 41010), (Start: 6 @41001 has 24 MA's), (10, 40980), (11, 40977), (15, 40944), (19, 40890),

Gene: DARTHPhader_62 Start: 41346, Stop: 41119, Start Num: 8

Candidate Starts for DARTHPhader_62:

(2, 41433), (Start: 8 @41346 has 2 MA's), (10, 41325), (16, 41238), (27, 41145), (28, 41136),

Gene: EZMoney23_61 Start: 40514, Stop: 40338, Start Num: 7

Candidate Starts for EZMoney23_61:

(Start: 7 @40514 has 2 MA's), (10, 40490), (11, 40487), (12, 40484), (15, 40454), (18, 40400),

Gene: EdogawaKiddo_65 Start: 40549, Stop: 40373, Start Num: 6

Candidate Starts for EdogawaKiddo_65:

(3, 40558), (Start: 6 @40549 has 24 MA's), (13, 40519), (20, 40420),

Gene: Eidsmoe_65 Start: 40165, Stop: 39989, Start Num: 6

Candidate Starts for Eidsmoe_65:

(3, 40174), (Start: 6 @40165 has 24 MA's), (13, 40135), (20, 40036),

Gene: Elephantoon_65 Start: 39800, Stop: 39591, Start Num: 6

Candidate Starts for Elephantoon_65:

(3, 39809), (Start: 6 @39800 has 24 MA's), (10, 39776), (15, 39740), (26, 39608),

Gene: EmyBug_64 Start: 40167, Stop: 39991, Start Num: 6

Candidate Starts for EmyBug_64:

(3, 40176), (Start: 6 @40167 has 24 MA's), (13, 40137), (20, 40038),

Gene: ExplosioNervosa_65 Start: 40233, Stop: 40057, Start Num: 6

Candidate Starts for ExplosioNervosa_65:

(3, 40242), (Start: 6 @40233 has 24 MA's), (13, 40203), (20, 40104),

Gene: Fayely_65 Start: 40134, Stop: 39958, Start Num: 6

Candidate Starts for Fayely_65:

(3, 40143), (Start: 6 @40134 has 24 MA's), (13, 40104), (20, 40005),

Gene: Hanray_65 Start: 40497, Stop: 40321, Start Num: 6

Candidate Starts for Hanray_65:

(3, 40506), (Start: 6 @40497 has 24 MA's), (13, 40467), (20, 40368),

Gene: Horex_65 Start: 40513, Stop: 40337, Start Num: 6

Candidate Starts for Horex_65:

(3, 40522), (Start: 6 @40513 has 24 MA's), (13, 40483), (20, 40384),

Gene: HortumSL17_68 Start: 40581, Stop: 40405, Start Num: 6

Candidate Starts for HortumSL17_68:

(3, 40590), (Start: 6 @40581 has 24 MA's), (13, 40551), (20, 40452),

Gene: Jiawan_64 Start: 40529, Stop: 40353, Start Num: 6

Candidate Starts for Jiawan_64:

(3, 40538), (Start: 6 @40529 has 24 MA's), (13, 40499), (20, 40400),

Gene: Lilleskat_63 Start: 40365, Stop: 40189, Start Num: 6

Candidate Starts for Lilleskat_63:

(3, 40374), (Start: 6 @40365 has 24 MA's), (13, 40335), (20, 40236),

Gene: LoneWolf_67 Start: 40486, Stop: 40307, Start Num: 5

Candidate Starts for LoneWolf_67:

(3, 40492), (Start: 5 @40486 has 3 MA's), (13, 40453), (20, 40354),

Gene: Maminaiaina_66 Start: 40458, Stop: 40285, Start Num: 6
Candidate Starts for Maminaiaina_66:
(3, 40467), (Start: 6 @40458 has 24 MA's), (12, 40434), (13, 40431), (20, 40332),

Gene: Myxus_67 Start: 40581, Stop: 40405, Start Num: 6
Candidate Starts for Myxus_67:
(3, 40590), (Start: 6 @40581 has 24 MA's), (13, 40551), (20, 40452),

Gene: Onglai_65 Start: 38785, Stop: 38609, Start Num: 6
Candidate Starts for Onglai_65:
(3, 38794), (Start: 6 @38785 has 24 MA's), (13, 38755), (18, 38674), (20, 38656),

Gene: PackMan_66 Start: 40456, Stop: 40280, Start Num: 6
Candidate Starts for PackMan_66:
(3, 40465), (Start: 6 @40456 has 24 MA's), (13, 40426), (20, 40327),

Gene: Phaeder_67 Start: 40456, Stop: 40280, Start Num: 6
Candidate Starts for Phaeder_67:
(3, 40465), (Start: 6 @40456 has 24 MA's), (13, 40426), (20, 40327),

Gene: Pharaoh_60 Start: 40175, Stop: 39996, Start Num: 9
Candidate Starts for Pharaoh_60:
(4, 40244), (Start: 9 @40175 has 1 MA's), (13, 40145), (14, 40133), (17, 40073), (21, 40013), (22, 40010),

Gene: Phonnegut_68 Start: 40678, Stop: 40502, Start Num: 6
Candidate Starts for Phonnegut_68:
(3, 40687), (Start: 6 @40678 has 24 MA's), (13, 40648), (20, 40549),

Gene: Pioneer_68 Start: 40678, Stop: 40502, Start Num: 6
Candidate Starts for Pioneer_68:
(3, 40687), (Start: 6 @40678 has 24 MA's), (13, 40648), (20, 40549),

Gene: Priya_65 Start: 40168, Stop: 39992, Start Num: 6
Candidate Starts for Priya_65:
(3, 40177), (Start: 6 @40168 has 24 MA's), (13, 40138), (20, 40039),

Gene: Qobbit_65 Start: 40130, Stop: 39954, Start Num: 6
Candidate Starts for Qobbit_65:
(3, 40139), (Start: 6 @40130 has 24 MA's), (13, 40100), (20, 40001),

Gene: Refuge_62 Start: 41364, Stop: 41134, Start Num: 8
Candidate Starts for Refuge_62:
(2, 41457), (Start: 8 @41364 has 2 MA's), (10, 41340), (16, 41253), (22, 41178), (27, 41160), (28, 41151),

Gene: RyeScarlet_69 Start: 40653, Stop: 40477, Start Num: 6
Candidate Starts for RyeScarlet_69:
(3, 40662), (Start: 6 @40653 has 24 MA's), (13, 40623), (20, 40524),

Gene: Sachima_63 Start: 40482, Stop: 40306, Start Num: 6
Candidate Starts for Sachima_63:

(3, 40491), (Start: 6 @40482 has 24 MA's), (13, 40452), (20, 40353),

Gene: Scherzo_67 Start: 40816, Stop: 40637, Start Num: 5

Candidate Starts for Scherzo_67:

(3, 40822), (Start: 5 @40816 has 3 MA's), (13, 40783), (20, 40684),

Gene: Spouty_65 Start: 40167, Stop: 39991, Start Num: 6

Candidate Starts for Spouty_65:

(3, 40176), (Start: 6 @40167 has 24 MA's), (13, 40137), (20, 40038),

Gene: Steamy_61 Start: 39912, Stop: 39730, Start Num: 7

Candidate Starts for Steamy_61:

(1, 40065), (3, 39924), (Start: 7 @39912 has 2 MA's), (10, 39894), (11, 39891), (12, 39888), (13, 39885), (21, 39744), (22, 39741), (24, 39735),

Gene: Tubs_67 Start: 40456, Stop: 40280, Start Num: 6

Candidate Starts for Tubs_67:

(3, 40465), (Start: 6 @40456 has 24 MA's), (13, 40426), (20, 40327),

Gene: Ugenie5_63 Start: 40815, Stop: 40636, Start Num: 5

Candidate Starts for Ugenie5_63:

(3, 40821), (Start: 5 @40815 has 3 MA's), (13, 40782), (20, 40683),

Gene: Zimmer_62 Start: 41147, Stop: 40962, Start Num: 7

Candidate Starts for Zimmer_62:

(3, 41159), (Start: 7 @41147 has 2 MA's), (11, 41126), (12, 41123), (13, 41120), (17, 41039), (22, 40976), (23, 40973), (25, 40967),