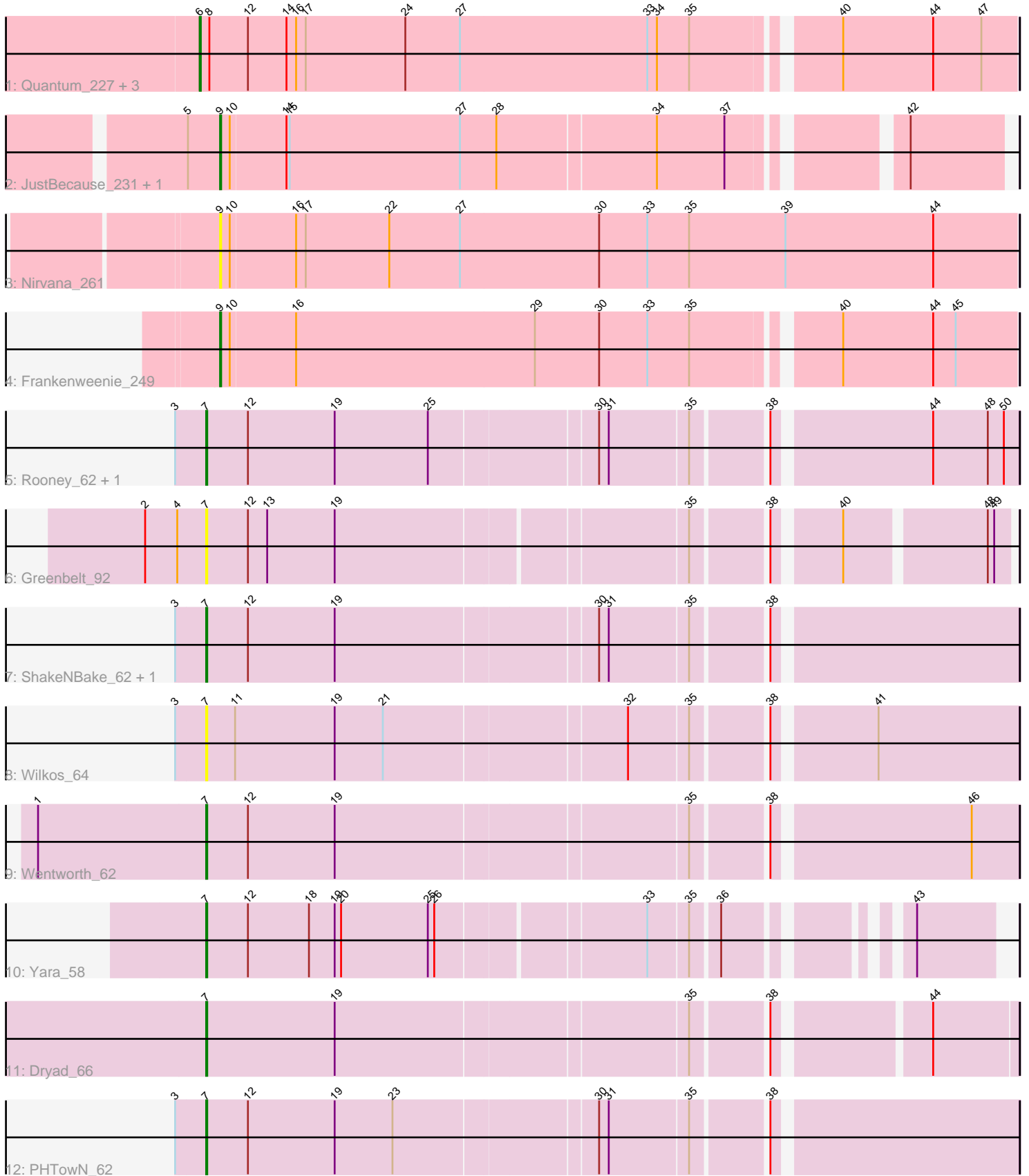


Pham 224945



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 224945 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224945 has 18 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Quantum_227, Satis_228, EhyElimayoE_231, Kradal_229
- Track 2 : JustBecause_231, Kela_230
- Track 3 : Nirvana_261
- Track 4 : Frankenweenie_249
- Track 5 : Rooney_62, Gibson_62
- Track 6 : Greenbelt_92
- Track 7 : ShakeNBake_62, Lizz_62
- Track 8 : Wilkos_64
- Track 9 : Wentworth_62
- Track 10 : Yara_58
- Track 11 : Dryad_66
- Track 12 : PHTowN_62

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_66, Gibson_62, Greenbelt_92, Lizz_62, PHTowN_62, Rooney_62, ShakeNBake_62, Wentworth_62, Wilkos_64, Yara_58,

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

-

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

- EhyElimayoE_231, Frankenweenie_249, JustBecause_231, Kela_230, Kradal_229, Nirvana_261, Quantum_227, Satis_228,

Summary by start number:

Start 6:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 4 of 15

- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_231 (BM), Kradal_229 (BM), Quantum_227 (BM), Satis_228 (BM),

Start 7:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 8 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_66 (BN), Gibson_62 (BN), Greenbelt_92 (BN), Lizz_62 (BN), PHTowN_62 (BN), Rooney_62 (BN), ShakeNBake_62 (BN), Wentworth_62 (BN), Wilkos_64 (BN), Yara_58 (BN),

Start 9:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Frankenweenie_249 (BM), JustBecause_231 (BM), Kela_230 (BM), Nirvana_261 (BM),

Summary by clusters:

There are 2 clusters represented in this pham: BM, BN,

Info for manual annotations of cluster BM:

- Start number 6 was manually annotated 4 times for cluster BM.
- Start number 9 was manually annotated 3 times for cluster BM.

Info for manual annotations of cluster BN:

- Start number 7 was manually annotated 8 times for cluster BN.

Gene Information:

Gene: Dryad_66 Start: 45069, Stop: 44365, Start Num: 7

Candidate Starts for Dryad_66:

(Start: 7 @45069 has 8 MA's), (19, 44949), (35, 44634), (38, 44571), (44, 44442),

Gene: EhyElimayoE_231 Start: 136388, Stop: 137125, Start Num: 6

Candidate Starts for EhyElimayoE_231:

(Start: 6 @136388 has 4 MA's), (8, 136397), (12, 136433), (14, 136469), (16, 136478), (17, 136487), (24, 136580), (27, 136631), (33, 136805), (34, 136814), (35, 136844), (40, 136964), (44, 137048), (47, 137093),

Gene: Frankenweenie_249 Start: 147539, Stop: 148255, Start Num: 9

Candidate Starts for Frankenweenie_249:

(Start: 9 @147539 has 3 MA's), (10, 147548), (16, 147608), (29, 147830), (30, 147890), (33, 147935), (35, 147974), (40, 148094), (44, 148178), (45, 148199),

Gene: Gibson_62 Start: 44320, Stop: 43604, Start Num: 7

Candidate Starts for Gibson_62:

(3, 44347), (Start: 7 @44320 has 8 MA's), (12, 44281), (19, 44200), (25, 44113), (30, 43966), (31, 43957), (35, 43885), (38, 43822), (44, 43684), (48, 43633), (50, 43618),

Gene: Greenbelt_92 Start: 40352, Stop: 39663, Start Num: 7

Candidate Starts for Greenbelt_92:

(2, 40409), (4, 40379), (Start: 7 @40352 has 8 MA's), (12, 40313), (13, 40295), (19, 40232), (35, 39923), (38, 39860), (40, 39806), (48, 39683), (49, 39677),

Gene: JustBecause_231 Start: 134496, Stop: 135179, Start Num: 9

Candidate Starts for JustBecause_231:

(5, 134466), (Start: 9 @134496 has 3 MA's), (10, 134505), (14, 134556), (15, 134559), (27, 134718), (28, 134751), (34, 134895), (37, 134958), (42, 135093),

Gene: Kela_230 Start: 135079, Stop: 135762, Start Num: 9

Candidate Starts for Kela_230:

(5, 135049), (Start: 9 @135079 has 3 MA's), (10, 135088), (14, 135139), (15, 135142), (27, 135301), (28, 135334), (34, 135478), (37, 135541), (42, 135676),

Gene: Kradal_229 Start: 136385, Stop: 137122, Start Num: 6

Candidate Starts for Kradal_229:

(Start: 6 @136385 has 4 MA's), (8, 136394), (12, 136430), (14, 136466), (16, 136475), (17, 136484), (24, 136577), (27, 136628), (33, 136802), (34, 136811), (35, 136841), (40, 136961), (44, 137045), (47, 137090),

Gene: Lizz_62 Start: 44158, Stop: 43442, Start Num: 7

Candidate Starts for Lizz_62:

(3, 44185), (Start: 7 @44158 has 8 MA's), (12, 44119), (19, 44038), (30, 43804), (31, 43795), (35, 43723), (38, 43660),

Gene: Nirvana_261 Start: 146399, Stop: 147139, Start Num: 9

Candidate Starts for Nirvana_261:

(Start: 9 @146399 has 3 MA's), (10, 146408), (16, 146468), (17, 146477), (22, 146555), (27, 146621), (30, 146750), (33, 146795), (35, 146834), (39, 146924), (44, 147062),

Gene: PHTowN_62 Start: 44156, Stop: 43440, Start Num: 7

Candidate Starts for PHTowN_62:

(3, 44183), (Start: 7 @44156 has 8 MA's), (12, 44117), (19, 44036), (23, 43982), (30, 43802), (31, 43793), (35, 43721), (38, 43658),

Gene: Quantum_227 Start: 136379, Stop: 137116, Start Num: 6

Candidate Starts for Quantum_227:

(Start: 6 @136379 has 4 MA's), (8, 136388), (12, 136424), (14, 136460), (16, 136469), (17, 136478), (24, 136571), (27, 136622), (33, 136796), (34, 136805), (35, 136835), (40, 136955), (44, 137039), (47, 137084),

Gene: Rooney_62 Start: 44317, Stop: 43601, Start Num: 7

Candidate Starts for Rooney_62:

(3, 44344), (Start: 7 @44317 has 8 MA's), (12, 44278), (19, 44197), (25, 44110), (30, 43963), (31, 43954), (35, 43882), (38, 43819), (44, 43681), (48, 43630), (50, 43615),

Gene: Satis_228 Start: 136722, Stop: 137459, Start Num: 6

Candidate Starts for Satis_228:

(Start: 6 @136722 has 4 MA's), (8, 136731), (12, 136767), (14, 136803), (16, 136812), (17, 136821), (24, 136914), (27, 136965), (33, 137139), (34, 137148), (35, 137178), (40, 137298), (44, 137382), (47, 137427),

Gene: ShakeNBake_62 Start: 44174, Stop: 43458, Start Num: 7

Candidate Starts for ShakeNBake_62:

(3, 44201), (Start: 7 @44174 has 8 MA's), (12, 44135), (19, 44054), (30, 43820), (31, 43811), (35, 43739), (38, 43676),

Gene: Wentworth_62 Start: 44313, Stop: 43597, Start Num: 7

Candidate Starts for Wentworth_62:

(1, 44469), (Start: 7 @44313 has 8 MA's), (12, 44274), (19, 44193), (35, 43878), (38, 43815), (46, 43641),

Gene: Wilkos_64 Start: 44465, Stop: 43749, Start Num: 7

Candidate Starts for Wilkos_64:

(3, 44492), (Start: 7 @44465 has 8 MA's), (11, 44438), (19, 44345), (21, 44300), (32, 44084), (35, 44030), (38, 43967), (41, 43880),

Gene: Yara_58 Start: 43009, Stop: 42356, Start Num: 7

Candidate Starts for Yara_58:

(Start: 7 @43009 has 8 MA's), (12, 42970), (18, 42913), (19, 42889), (20, 42883), (25, 42802), (26, 42796), (33, 42616), (35, 42580), (36, 42556), (43, 42427),