Pham 241363

1: Nirvana_353
2: Quantum_323 + 3
3: Kela_320
4: JustBecause_322
5: Frankenweenie_351
6: Sarkar_339

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 241363 Report

This analysis was run 02/07/26 on database version 634.

Pham number 241363 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Nirvana_353
• Track 2 : Quantum_323, EhyElimayoE_328, Kradal_325, Satis_325
• Track 3 : Kela_320
• Track 4 : JustBecause_322
• Track 5 : Frankenweenie_351
• Track 6 : Sarkar_339

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_328, Kradal_325, Quantum_323, Satis_325,

Genes that have the "Most Annotated" start but do not call it:
• Sarkar_339,

Genes that do not have the "Most Annotated" start:
• Frankenweenie_351, JustBecause_322, Kela_320, Nirvana_353,

Summary by start number:

Start 5:
• Found in 5 of 9 (55.6%) of genes in pham
• Manual Annotations of this start: 4 of 8
• Called 80.0% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_328 (BM), Kradal_325 (BM), Quantum_323 (BM), Satis_325 (BM),

Start 7:
• Found in 5 of 9 (55.6%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present

• Phage (with cluster) where this start called: Sarkar_339 (BM),

Start 9:
• Found in 4 of 9 (44.4%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Frankenweenie_351 (BM), Kela_320 (BM), Nirvana_353 (BM),

Start 11:
• Found in 2 of 9 (22.2%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JustBecause_322 (BM),

Summary by clusters:

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:
•Start number 5 was manually annotated 4 times for cluster BM.
•Start number 9 was manually annotated 3 times for cluster BM.
•Start number 11 was manually annotated 1 time for cluster BM.

Gene Information:

Gene: EhyElimayoE_328 Start: 176791, Stop: 176249, Start Num: 5
Candidate Starts for EhyElimayoE_328:
(Start: 5 @176791 has 4 MA's), (6, 176773), (7, 176752), (12, 176683), (14, 176668), (15, 176641), (16, 176629), (17, 176620), (18, 176599), (26, 176401), (29, 176326), (30, 176272),

Gene: Frankenweenie_351 Start: 188890, Stop: 188399, Start Num: 9
Candidate Starts for Frankenweenie_351:
(1, 189136), (2, 189130), (3, 188986), (4, 188980), (6, 188938), (8, 188896), (Start: 9 @188890 has 3 MA's), (10, 188869), (13, 188842), (19, 188734), (20, 188725), (23, 188635), (25, 188587), (27, 188545), (28, 188509),

Gene: JustBecause_322 Start: 172101, Stop: 171655, Start Num: 11
Candidate Starts for JustBecause_322:
(Start: 9 @172143 has 3 MA's), (Start: 11 @172101 has 1 MA's), (19, 171987), (20, 171978), (21, 171957), (22, 171924), (27, 171798), (28, 171762),

Gene: Kela_320 Start: 173039, Stop: 172551, Start Num: 9
Candidate Starts for Kela_320:
(Start: 9 @173039 has 3 MA's), (Start: 11 @172997 has 1 MA's), (19, 172883), (20, 172874), (22, 172820), (27, 172694), (28, 172658),

Gene: Kradal_325 Start: 176788, Stop: 176246, Start Num: 5
Candidate Starts for Kradal_325:
(Start: 5 @176788 has 4 MA's), (6, 176770), (7, 176749), (12, 176680), (14, 176665), (15, 176638), (16, 176626), (17, 176617), (18, 176596), (26, 176398), (29, 176323), (30, 176269),

Gene: Nirvana_353 Start: 192104, Stop: 191613, Start Num: 9
Candidate Starts for Nirvana_353:
(1, 192350), (2, 192344), (3, 192200), (4, 192194), (6, 192152), (8, 192110), (Start: 9 @192104 has 3 MA's), (10, 192083), (13, 192056), (22, 191885), (24, 191846), (27, 191762), (28, 191726),

Gene: Quantum_323 Start: 176782, Stop: 176240, Start Num: 5
Candidate Starts for Quantum_323:
(Start: 5 @176782 has 4 MA's), (6, 176764), (7, 176743), (12, 176674), (14, 176659), (15, 176632), (16, 176620), (17, 176611), (18, 176590), (26, 176392), (29, 176317), (30, 176263),

Gene: Sarkar_339 Start: 176793, Stop: 176290, Start Num: 7
Candidate Starts for Sarkar_339:
(Start: 5 @176832 has 4 MA's), (6, 176814), (7, 176793), (12, 176724), (14, 176709), (15, 176682), (16, 176670), (17, 176661), (18, 176640), (26, 176442), (29, 176367), (30, 176313),

Gene: Satis_325 Start: 177125, Stop: 176583, Start Num: 5
Candidate Starts for Satis_325:
(Start: 5 @177125 has 4 MA's), (6, 177107), (7, 177086), (12, 177017), (14, 177002), (15, 176975), (16, 176963), (17, 176954), (18, 176933), (26, 176735), (29, 176660), (30, 176606),