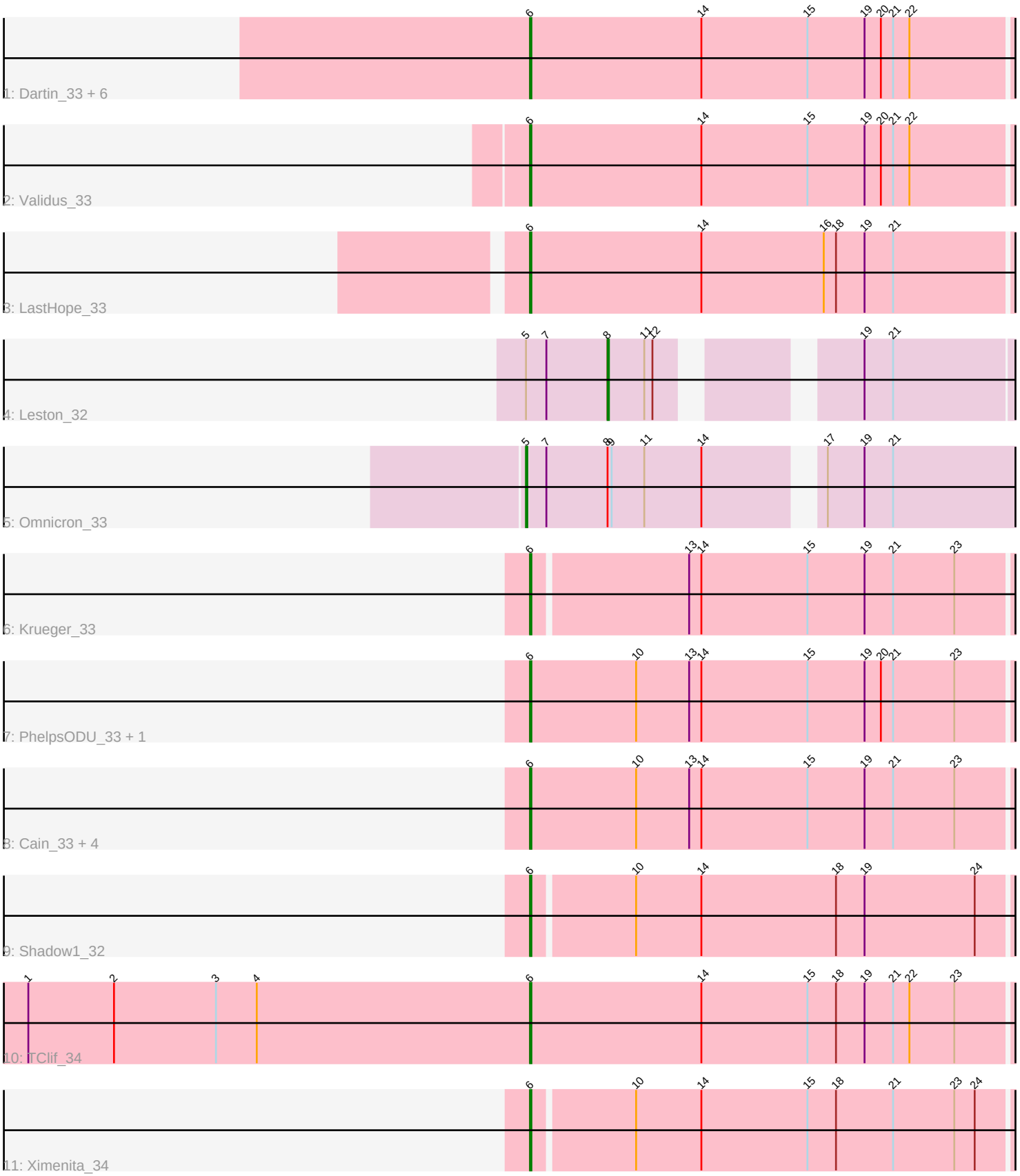
Pham 224880


1: Dartin_33 + 6
2: Validus_33
3: LastHope_33
4: Leston_32
5: Omnicron_33
6: Krueger_33
7: PhelpsODU_33 + 1
8: Cain_33 + 4
9: Shadow1_32
10: TClif_34
11: Ximenita_34

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 224880 Report

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

Pham number 224880 has 22 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Dartin_33, Shaobing_33, Peanam_33, Richo_33, McMater_33, Niklas_33, Chavito_33
• Track 2 : Validus_33
• Track 3 : LastHope_33
• Track 4 : Leston_32
• Track 5 : Omnicron_33
• Track 6 : Krueger_33
• Track 7 : PhelpsODU_33, Unicorn_33
• Track 8 : Cain_33, Bryler_33, Phrank_33, Tierra_33, Sunflower1121_32
• Track 9 : Shadow1_32
• Track 10 : TClif_34
• Track 11 : Ximenita_34

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 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bryler_33, Cain_33, Chavito_33, Dartin_33, Krueger_33, LastHope_33, McMater_33, Niklas_33, Peanam_33, PhelpsODU_33, Phrank_33, Richo_33, Shadow1_32, Shaobing_33, Sunflower1121_32, TClif_34, Tierra_33, Unicorn_33, Validus_33, Ximenita_34,

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

Genes that do not have the "Most Annotated" start:
• Leston_32, Omnicron_33,

Summary by start number:

Start 5:
• Found in 2 of 22 (9.1%) of genes in pham

• Manual Annotations of this start: 1 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Omnicron_33 (K5),

Start 6:
• Found in 20 of 22 (90.9%) of genes in pham
• Manual Annotations of this start: 16 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bryler_33 (K6), Cain_33 (K6), Chavito_33 (K1), Dartin_33 (K1), Krueger_33 (K6), LastHope_33 (K1), McMater_33 (K1), Niklas_33 (K1), Peanam_33 (K1), PhelpsODU_33 (K6), Phrank_33 (K6), Richo_33 (K1), Shadow1_32 (K6), Shaobing_33 (K1), Sunflower1121_32 (K6), TClif_34 (K6), Tierra_33 (K6), Unicorn_33 (K6), Validus_33 (K1), Ximenita_34 (K6),

Start 8:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Leston_32 (K5),

Summary by clusters:

There are 3 clusters represented in this pham: K1, K6, K5,

Info for manual annotations of cluster K1:
•Start number 6 was manually annotated 5 times for cluster K1.

Info for manual annotations of cluster K5:
•Start number 5 was manually annotated 1 time for cluster K5.
•Start number 8 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 6 was manually annotated 11 times for cluster K6.

Gene Information:

Gene: Bryler_33 Start: 27088, Stop: 27450, Start Num: 6
Candidate Starts for Bryler_33:
(Start: 6 @27088 has 16 MA's), (10, 27166), (13, 27205), (14, 27214), (15, 27292), (19, 27334), (21, 27355), (23, 27400),

Gene: Cain_33 Start: 27076, Stop: 27438, Start Num: 6
Candidate Starts for Cain_33:
(Start: 6 @27076 has 16 MA's), (10, 27154), (13, 27193), (14, 27202), (15, 27280), (19, 27322), (21, 27343), (23, 27388),

Gene: Chavito_33 Start: 27395, Stop: 27757, Start Num: 6
Candidate Starts for Chavito_33:
(Start: 6 @27395 has 16 MA's), (14, 27521), (15, 27599), (19, 27641), (20, 27653), (21, 27662), (22, 27674),

Gene: Dartin_33 Start: 27083, Stop: 27445, Start Num: 6
Candidate Starts for Dartin_33:
(Start: 6 @27083 has 16 MA's), (14, 27209), (15, 27287), (19, 27329), (20, 27341), (21, 27350), (22, 27362),

Gene: Krueger_33 Start: 26955, Stop: 27311, Start Num: 6
Candidate Starts for Krueger_33:
(Start: 6 @26955 has 16 MA's), (13, 27066), (14, 27075), (15, 27153), (19, 27195), (21, 27216), (23, 27261),

Gene: LastHope_33 Start: 26912, Stop: 27274, Start Num: 6
Candidate Starts for LastHope_33:
(Start: 6 @26912 has 16 MA's), (14, 27038), (16, 27128), (18, 27137), (19, 27158), (21, 27179),

Gene: Leston_32 Start: 28554, Stop: 28829, Start Num: 8
Candidate Starts for Leston_32:
(Start: 5 @28494 has 1 MA's), (7, 28509), (Start: 8 @28554 has 1 MA's), (11, 28581), (12, 28587), (19, 28701), (21, 28722),

Gene: McMater_33 Start: 27083, Stop: 27445, Start Num: 6
Candidate Starts for McMater_33:
(Start: 6 @27083 has 16 MA's), (14, 27209), (15, 27287), (19, 27329), (20, 27341), (21, 27350), (22, 27362),

Gene: Niklas_33 Start: 27086, Stop: 27448, Start Num: 6
Candidate Starts for Niklas_33:
(Start: 6 @27086 has 16 MA's), (14, 27212), (15, 27290), (19, 27332), (20, 27344), (21, 27353), (22, 27365),

Gene: Omnicron_33 Start: 27250, Stop: 27609, Start Num: 5
Candidate Starts for Omnicron_33:
(Start: 5 @27250 has 1 MA's), (7, 27265), (Start: 8 @27310 has 1 MA's), (9, 27313), (11, 27337), (14, 27379), (17, 27451), (19, 27478), (21, 27499),

Gene: Peanam_33 Start: 27083, Stop: 27445, Start Num: 6
Candidate Starts for Peanam_33:
(Start: 6 @27083 has 16 MA's), (14, 27209), (15, 27287), (19, 27329), (20, 27341), (21, 27350), (22, 27362),

Gene: PhelpsODU_33 Start: 27114, Stop: 27476, Start Num: 6
Candidate Starts for PhelpsODU_33:
(Start: 6 @27114 has 16 MA's), (10, 27192), (13, 27231), (14, 27240), (15, 27318), (19, 27360), (20, 27372), (21, 27381), (23, 27426),

Gene: Phrank_33 Start: 27064, Stop: 27426, Start Num: 6
Candidate Starts for Phrank_33:
(Start: 6 @27064 has 16 MA's), (10, 27142), (13, 27181), (14, 27190), (15, 27268), (19, 27310), (21, 27331), (23, 27376),

Gene: Richo_33 Start: 27083, Stop: 27445, Start Num: 6
Candidate Starts for Richo_33:
(Start: 6 @27083 has 16 MA's), (14, 27209), (15, 27287), (19, 27329), (20, 27341), (21, 27350), (22, 27362),

Gene: Shadow1_32 Start: 26937, Stop: 27293, Start Num: 6
Candidate Starts for Shadow1_32:
(Start: 6 @26937 has 16 MA's), (10, 27009), (14, 27057), (18, 27156), (19, 27177), (24, 27258),

Gene: Shaobing_33 Start: 27083, Stop: 27445, Start Num: 6
Candidate Starts for Shaobing_33:
(Start: 6 @27083 has 16 MA's), (14, 27209), (15, 27287), (19, 27329), (20, 27341), (21, 27350), (22, 27362),

Gene: Sunflower1121_32 Start: 26949, Stop: 27311, Start Num: 6
Candidate Starts for Sunflower1121_32:
(Start: 6 @26949 has 16 MA's), (10, 27027), (13, 27066), (14, 27075), (15, 27153), (19, 27195), (21, 27216), (23, 27261),

Gene: TClif_34 Start: 27522, Stop: 27884, Start Num: 6
Candidate Starts for TClif_34:
(1, 27153), (2, 27216), (3, 27291), (4, 27321), (Start: 6 @27522 has 16 MA's), (14, 27648), (15, 27726), (18, 27747), (19, 27768), (21, 27789), (22, 27801), (23, 27834),

Gene: Tierra_33 Start: 27785, Stop: 28147, Start Num: 6
Candidate Starts for Tierra_33:
(Start: 6 @27785 has 16 MA's), (10, 27863), (13, 27902), (14, 27911), (15, 27989), (19, 28031), (21, 28052), (23, 28097),

Gene: Unicorn_33 Start: 27114, Stop: 27476, Start Num: 6
Candidate Starts for Unicorn_33:
(Start: 6 @27114 has 16 MA's), (10, 27192), (13, 27231), (14, 27240), (15, 27318), (19, 27360), (20, 27372), (21, 27381), (23, 27426),

Gene: Validus_33 Start: 27015, Stop: 27377, Start Num: 6
Candidate Starts for Validus_33:
(Start: 6 @27015 has 16 MA's), (14, 27141), (15, 27219), (19, 27261), (20, 27273), (21, 27282), (22, 27294),

Gene: Ximenita_34 Start: 27141, Stop: 27497, Start Num: 6
Candidate Starts for Ximenita_34:
(Start: 6 @27141 has 16 MA's), (10, 27213), (14, 27261), (15, 27339), (18, 27360), (21, 27402), (23, 27447), (24, 27462),