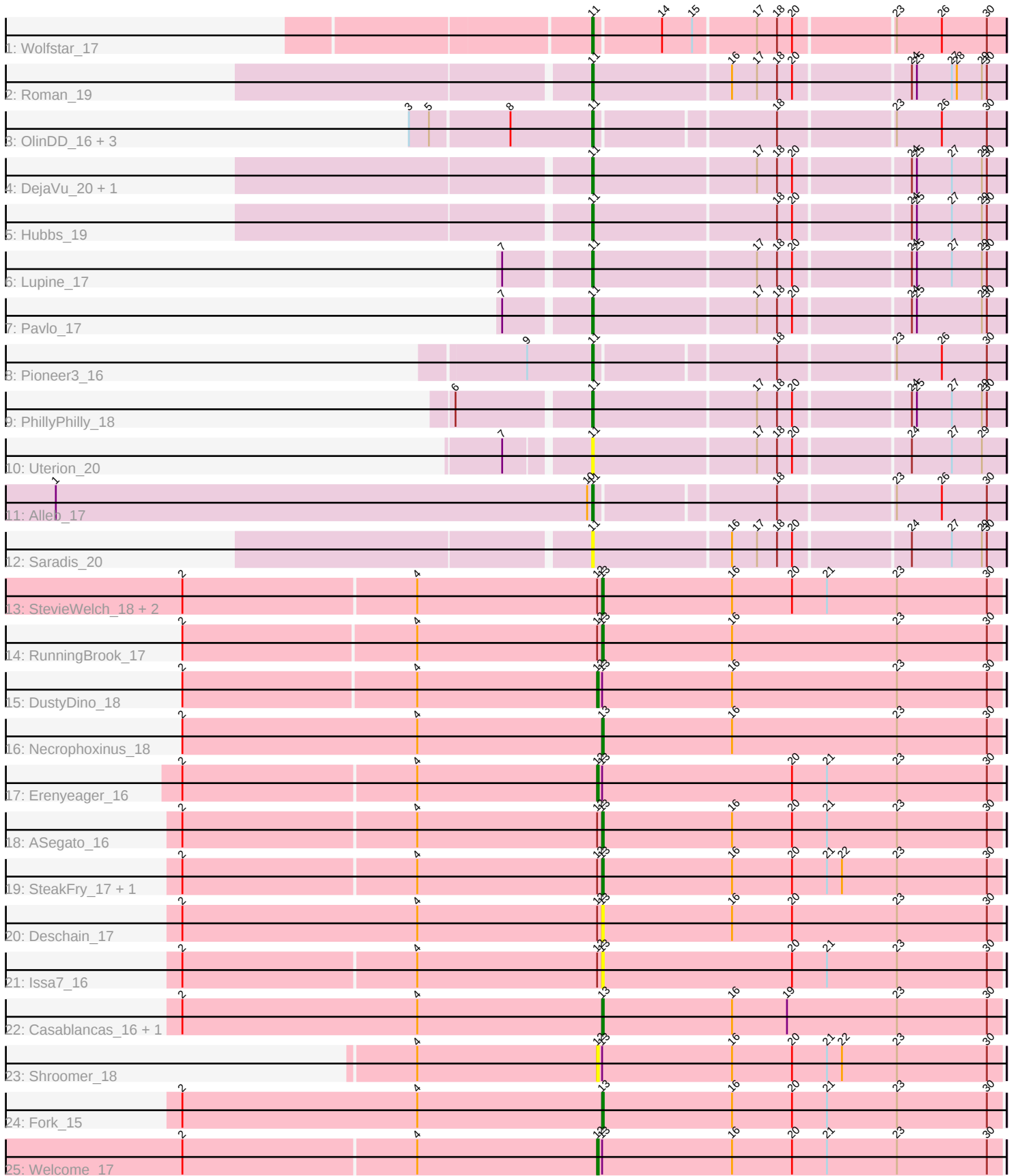


Pham 274560



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 274560 Report

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

Pham number 274560 has 33 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_17
- Track 2 : Roman_19
- Track 3 : OlinDD_16, Hortus1_16, Platte_17, Tandem_16
- Track 4 : DejaVu_20, Solimine_21
- Track 5 : Hubbs_19
- Track 6 : Lupine_17
- Track 7 : Pavlo_17
- Track 8 : Pioneer3_16
- Track 9 : PhillyPhilly_18
- Track 10 : Uterion_20
- Track 11 : Alleb_17
- Track 12 : Saradis_20
- Track 13 : StevieWelch_18, Musetta_17, Yuma_17
- Track 14 : RunningBrook_17
- Track 15 : DustyDino_18
- Track 16 : Necrophoxinus_18
- Track 17 : Erenyeager_16
- Track 18 : ASegato_16
- Track 19 : SteakFry_17, HollowPurple_18
- Track 20 : Deschain_17
- Track 21 : Issa7_16
- Track 22 : Casablancas_16, Lyell_18
- Track 23 : Shroomer_18
- Track 24 : Fork_15
- Track 25 : Welcome_17

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

The start number called the most often in the published annotations is 11, it was called in 13 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alleb_17, DejaVu_20, Hortus1_16, Hubbs_19, Lupine_17, OlinDD_16, Pavlo_17, PhillyPhilly_18, Pioneer3_16, Platte_17, Roman_19, Saradis_20, Solimine_21,

Tandem_16, Uterion_20, Wolfstar_17,

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

-

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

- ASegato_16, Casablanacas_16, Deschain_17, DustyDino_18, Erenyeager_16, Fork_15, HollowPurple_18, Issa7_16, Lyell_18, Musetta_17, Necrophoxinus_18, RunningBrook_17, Shroomer_18, SteakFry_17, StevieWelch_18, Welcome_17, Yuma_17,

Summary by start number:

Start 11:

- Found in 16 of 33 (48.5%) of genes in pham
- Manual Annotations of this start: 13 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alleb_17 (ED1), DejaVu_20 (ED1), Hortus1_16 (ED1), Hubbs_19 (ED1), Lupine_17 (ED1), OlinDD_16 (ED1), Pavlo_17 (ED1), PhillyPhilly_18 (ED1), Pioneer3_16 (ED1), Platte_17 (ED1), Roman_19 (ED1), Saradis_20 (ED1), Solimine_21 (ED1), Tandem_16 (ED1), Uterion_20 (ED1), Wolfstar_17 (ED),

Start 12:

- Found in 13 of 33 (39.4%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 30.8% of time when present
- Phage (with cluster) where this start called: DustyDino_18 (ED2), Erenyeager_16 (ED2), Shroomer_18 (ED2), Welcome_17 (ED2),

Start 13:

- Found in 17 of 33 (51.5%) of genes in pham
- Manual Annotations of this start: 9 of 25
- Called 76.5% of time when present
- Phage (with cluster) where this start called: ASegato_16 (ED2), Casablanacas_16 (ED2), Deschain_17 (ED2), Fork_15 (ED2), HollowPurple_18 (ED2), Issa7_16 (ED2), Lyell_18 (ED2), Musetta_17 (ED2), Necrophoxinus_18 (ED2), RunningBrook_17 (ED2), SteakFry_17 (ED2), StevieWelch_18 (ED2), Yuma_17 (ED2),

Summary by clusters:

There are 3 clusters represented in this pham: ED2, ED, ED1,

Info for manual annotations of cluster ED:

- Start number 11 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 11 was manually annotated 12 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 12 was manually annotated 3 times for cluster ED2.
- Start number 13 was manually annotated 9 times for cluster ED2.

Gene Information:

Gene: ASegato_16 Start: 5825, Stop: 6064, Start Num: 13

Candidate Starts for ASegato_16:

(2, 5576), (4, 5714), (Start: 12 @5822 has 3 MA's), (Start: 13 @5825 has 9 MA's), (16, 5903), (20, 5939), (21, 5960), (23, 6002), (30, 6056),

Gene: Alleb_17 Start: 5507, Stop: 5740, Start Num: 11

Candidate Starts for Alleb_17:

(1, 5186), (10, 5504), (Start: 11 @5507 has 13 MA's), (18, 5609), (23, 5675), (26, 5702), (30, 5729),

Gene: Casablancas_16 Start: 5771, Stop: 6010, Start Num: 13

Candidate Starts for Casablancas_16:

(2, 5519), (4, 5660), (Start: 13 @5771 has 9 MA's), (16, 5849), (19, 5882), (23, 5948), (30, 6002),

Gene: DejaVu_20 Start: 5660, Stop: 5899, Start Num: 11

Candidate Starts for DejaVu_20:

(Start: 11 @5660 has 13 MA's), (17, 5756), (18, 5768), (20, 5777), (24, 5843), (25, 5846), (27, 5867), (29, 5885), (30, 5888),

Gene: Deschain_17 Start: 6127, Stop: 6366, Start Num: 13

Candidate Starts for Deschain_17:

(2, 5875), (4, 6016), (Start: 12 @6124 has 3 MA's), (Start: 13 @6127 has 9 MA's), (16, 6205), (20, 6241), (23, 6304), (30, 6358),

Gene: DustyDino_18 Start: 6223, Stop: 6465, Start Num: 12

Candidate Starts for DustyDino_18:

(2, 5977), (4, 6115), (Start: 12 @6223 has 3 MA's), (Start: 13 @6226 has 9 MA's), (16, 6304), (23, 6403), (30, 6457),

Gene: Erenyeager_16 Start: 5740, Stop: 5982, Start Num: 12

Candidate Starts for Erenyeager_16:

(2, 5494), (4, 5632), (Start: 12 @5740 has 3 MA's), (Start: 13 @5743 has 9 MA's), (20, 5857), (21, 5878), (23, 5920), (30, 5974),

Gene: Fork_15 Start: 5485, Stop: 5724, Start Num: 13

Candidate Starts for Fork_15:

(2, 5233), (4, 5374), (Start: 13 @5485 has 9 MA's), (16, 5563), (20, 5599), (21, 5620), (23, 5662), (30, 5716),

Gene: HollowPurple_18 Start: 5989, Stop: 6228, Start Num: 13

Candidate Starts for HollowPurple_18:

(2, 5740), (4, 5878), (Start: 12 @5986 has 3 MA's), (Start: 13 @5989 has 9 MA's), (16, 6067), (20, 6103), (21, 6124), (22, 6133), (23, 6166), (30, 6220),

Gene: Hortus1_16 Start: 5506, Stop: 5739, Start Num: 11

Candidate Starts for Hortus1_16:

(3, 5401), (5, 5413), (8, 5458), (Start: 11 @5506 has 13 MA's), (18, 5608), (23, 5674), (26, 5701), (30, 5728),

Gene: Hubbs_19 Start: 5847, Stop: 6086, Start Num: 11

Candidate Starts for Hubbs_19:

(Start: 11 @5847 has 13 MA's), (18, 5955), (20, 5964), (24, 6030), (25, 6033), (27, 6054), (29, 6072), (30, 6075),

Gene: Issa7_16 Start: 5406, Stop: 5645, Start Num: 13

Candidate Starts for Issa7_16:

(2, 5157), (4, 5295), (Start: 12 @5403 has 3 MA's), (Start: 13 @5406 has 9 MA's), (20, 5520), (21, 5541), (23, 5583), (30, 5637),

Gene: Lupine_17 Start: 5397, Stop: 5636, Start Num: 11

Candidate Starts for Lupine_17:

(7, 5349), (Start: 11 @5397 has 13 MA's), (17, 5493), (18, 5505), (20, 5514), (24, 5580), (25, 5583), (27, 5604), (29, 5622), (30, 5625),

Gene: Lyell_18 Start: 5947, Stop: 6186, Start Num: 13

Candidate Starts for Lyell_18:

(2, 5695), (4, 5836), (Start: 13 @5947 has 9 MA's), (16, 6025), (19, 6058), (23, 6124), (30, 6178),

Gene: Musetta_17 Start: 5959, Stop: 6198, Start Num: 13

Candidate Starts for Musetta_17:

(2, 5710), (4, 5848), (Start: 12 @5956 has 3 MA's), (Start: 13 @5959 has 9 MA's), (16, 6037), (20, 6073), (21, 6094), (23, 6136), (30, 6190),

Gene: Necrophoxinus_18 Start: 6308, Stop: 6547, Start Num: 13

Candidate Starts for Necrophoxinus_18:

(2, 6056), (4, 6197), (Start: 13 @6308 has 9 MA's), (16, 6386), (23, 6485), (30, 6539),

Gene: OlinDD_16 Start: 5505, Stop: 5738, Start Num: 11

Candidate Starts for OlinDD_16:

(3, 5400), (5, 5412), (8, 5457), (Start: 11 @5505 has 13 MA's), (18, 5607), (23, 5673), (26, 5700), (30, 5727),

Gene: Pavlo_17 Start: 5669, Stop: 5908, Start Num: 11

Candidate Starts for Pavlo_17:

(7, 5621), (Start: 11 @5669 has 13 MA's), (17, 5765), (18, 5777), (20, 5786), (24, 5852), (25, 5855), (29, 5894), (30, 5897),

Gene: PhillyPhilly_18 Start: 5592, Stop: 5831, Start Num: 11

Candidate Starts for PhillyPhilly_18:

(6, 5517), (Start: 11 @5592 has 13 MA's), (17, 5688), (18, 5700), (20, 5709), (24, 5775), (25, 5778), (27, 5799), (29, 5817), (30, 5820),

Gene: Pioneer3_16 Start: 5406, Stop: 5639, Start Num: 11

Candidate Starts for Pioneer3_16:

(9, 5367), (Start: 11 @5406 has 13 MA's), (18, 5508), (23, 5574), (26, 5601), (30, 5628),

Gene: Platte_17 Start: 5539, Stop: 5772, Start Num: 11

Candidate Starts for Platte_17:

(3, 5434), (5, 5446), (8, 5491), (Start: 11 @5539 has 13 MA's), (18, 5641), (23, 5707), (26, 5734), (30, 5761),

Gene: Roman_19 Start: 5799, Stop: 6038, Start Num: 11

Candidate Starts for Roman_19:

(Start: 11 @5799 has 13 MA's), (16, 5880), (17, 5895), (18, 5907), (20, 5916), (24, 5982), (25, 5985), (27, 6006), (28, 6009), (29, 6024), (30, 6027),

Gene: RunningBrook_17 Start: 6226, Stop: 6465, Start Num: 13

Candidate Starts for RunningBrook_17:

(2, 5977), (4, 6115), (Start: 12 @6223 has 3 MA's), (Start: 13 @6226 has 9 MA's), (16, 6304), (23, 6403), (30, 6457),

Gene: Saradis_20 Start: 5859, Stop: 6098, Start Num: 11

Candidate Starts for Saradis_20:

(Start: 11 @5859 has 13 MA's), (16, 5940), (17, 5955), (18, 5967), (20, 5976), (24, 6042), (27, 6066), (29, 6084), (30, 6087),

Gene: Shroomer_18 Start: 5538, Stop: 5780, Start Num: 12

Candidate Starts for Shroomer_18:

(4, 5430), (Start: 12 @5538 has 3 MA's), (Start: 13 @5541 has 9 MA's), (16, 5619), (20, 5655), (21, 5676), (22, 5685), (23, 5718), (30, 5772),

Gene: Solimine_21 Start: 6274, Stop: 6513, Start Num: 11

Candidate Starts for Solimine_21:

(Start: 11 @6274 has 13 MA's), (17, 6370), (18, 6382), (20, 6391), (24, 6457), (25, 6460), (27, 6481), (29, 6499), (30, 6502),

Gene: SteakFry_17 Start: 5989, Stop: 6228, Start Num: 13

Candidate Starts for SteakFry_17:

(2, 5740), (4, 5878), (Start: 12 @5986 has 3 MA's), (Start: 13 @5989 has 9 MA's), (16, 6067), (20, 6103), (21, 6124), (22, 6133), (23, 6166), (30, 6220),

Gene: StevieWelch_18 Start: 6109, Stop: 6348, Start Num: 13

Candidate Starts for StevieWelch_18:

(2, 5860), (4, 5998), (Start: 12 @6106 has 3 MA's), (Start: 13 @6109 has 9 MA's), (16, 6187), (20, 6223), (21, 6244), (23, 6286), (30, 6340),

Gene: Tandem_16 Start: 5443, Stop: 5676, Start Num: 11

Candidate Starts for Tandem_16:

(3, 5338), (5, 5350), (8, 5395), (Start: 11 @5443 has 13 MA's), (18, 5545), (23, 5611), (26, 5638), (30, 5665),

Gene: Uterion_20 Start: 6157, Stop: 6396, Start Num: 11

Candidate Starts for Uterion_20:

(7, 6112), (Start: 11 @6157 has 13 MA's), (17, 6253), (18, 6265), (20, 6274), (24, 6340), (27, 6364), (29, 6382),

Gene: Welcome_17 Start: 5952, Stop: 6194, Start Num: 12

Candidate Starts for Welcome_17:

(2, 5706), (4, 5844), (Start: 12 @5952 has 3 MA's), (Start: 13 @5955 has 9 MA's), (16, 6033), (20, 6069), (21, 6090), (23, 6132), (30, 6186),

Gene: Wolfstar_17 Start: 5761, Stop: 5997, Start Num: 11

Candidate Starts for Wolfstar_17:

(Start: 11 @5761 has 13 MA's), (14, 5800), (15, 5818), (17, 5854), (18, 5866), (20, 5875), (23, 5932), (26, 5959), (30, 5986),

Gene: Yuma_17 Start: 5858, Stop: 6097, Start Num: 13

Candidate Starts for Yuma_17:

(2, 5609), (4, 5747), (Start: 12 @5855 has 3 MA's), (Start: 13 @5858 has 9 MA's), (16, 5936), (20, 5972), (21, 5993), (23, 6035), (30, 6089),