# Deleting a Main Strand

## Example: Deleting 3\_1

### Objective

When deleting the main strand 3\_1, we aim to remove:

#### Directly Associated Layers:

Layers starting with 3\_ (e.g., 3\_2, 3\_1\_2\_3).

Layers where 3 is used as a primary identifier (e.g., 3\_x\_y\_z, x\_y\_3\_z).

#### Exclude Unrelated Layers:

Layers that do not include 3 in these significant positions should remain unchanged (e.g., 1\_2\_4, 5\_3).

### Naming Patterns

#### Direct Relationship:

Layers starting with 3\_.

Example: 3\_2, 3\_1\_2\_3.

#### Complex Naming Patterns:

3\_x\_y\_z: A layer where 3 is a significant component in the sequence.

x\_y\_3\_z: Another pattern where 3 appears in a meaningful position.

Examples: 3\_1\_2\_4, 2\_3\_4\_1, 1\_1, 2\_3, 2\_4, 1\_3\_1\_2, 1\_3\_5\_2.

#### Ignored Patterns:

Layers where 3 does not appear at the start or as a key component.

Example: 1\_2\_4, 5\_3 (only 3 as a minor component).

## General Case: Deleting s\_1

### Objective

For any strand s\_1, the goal is to remove:

#### Related Layers:

Layers starting with s\_.

Layers containing s as a significant component, like s\_x\_y\_z or x\_y\_s\_z.

#### Exclude Unrelated Layers:

Layers not containing s as a key identifier should remain unchanged.

### Naming Patterns

#### Direct Relationship:

Layers starting with s\_.

#### Complex Naming Patterns:

s\_x\_y\_z: s appears as a primary identifier.

x\_y\_s\_z: s appears in significant positions within the sequence.

#### Ignored Patterns:

Layers where s does not appear as a significant component.

# Deleting an Attached Strand

## Example: Deleting x\_y (where y ≠ 1)

### Objective

When deleting an attached strand x\_y (where y is not equal to 1), the goal is to remove:

#### The Specific Attached Strand:

Delete the attached strand x\_y.

#### Associated Masks:

Delete all mask layers that include x\_y as a component.

Examples:

z\_w\_x\_y: A mask layer where x\_y is part of the sequence.

x\_y\_z\_w: Another mask pattern including x\_y.

### Naming Patterns

#### Direct Relationship:

x\_y itself is an attached strand to be deleted.

#### Complex Naming Patterns:

z\_w\_x\_y: Includes x\_y within the layer name.

x\_y\_z\_w: Another pattern with x\_y as a component.

#### Excluded Layers:

Layers that do not include x\_y in these significant positions should remain unchanged.