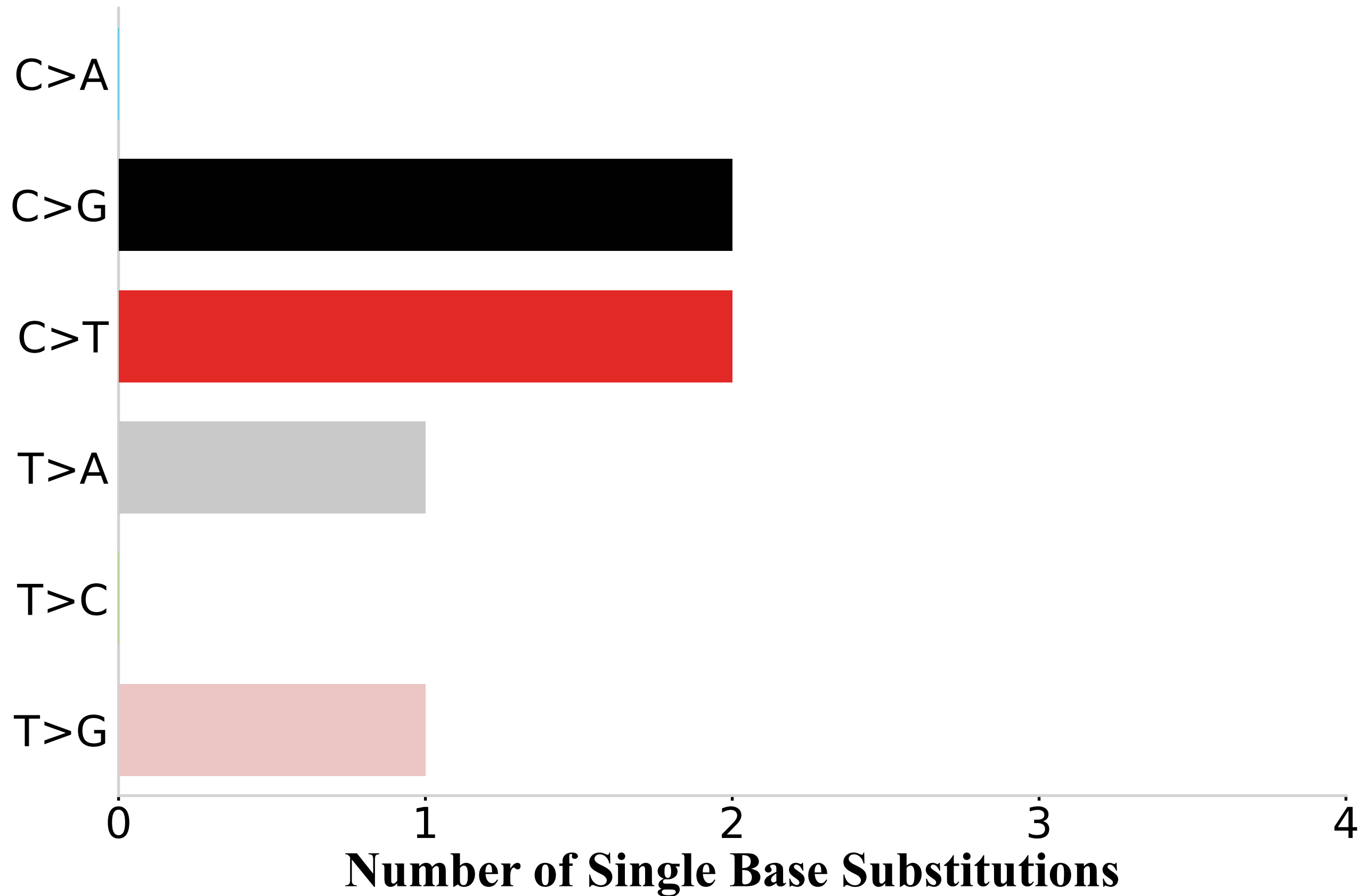
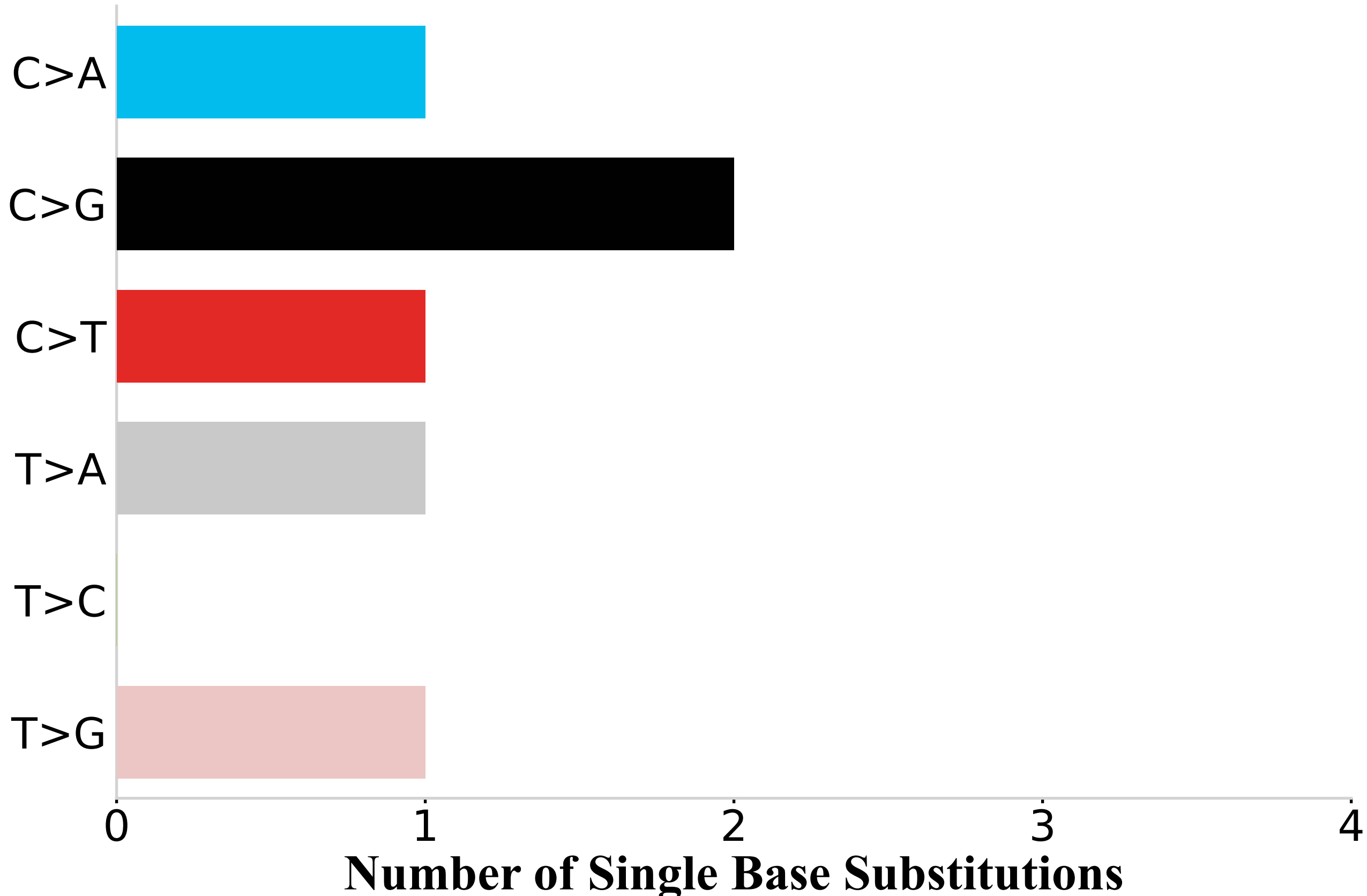


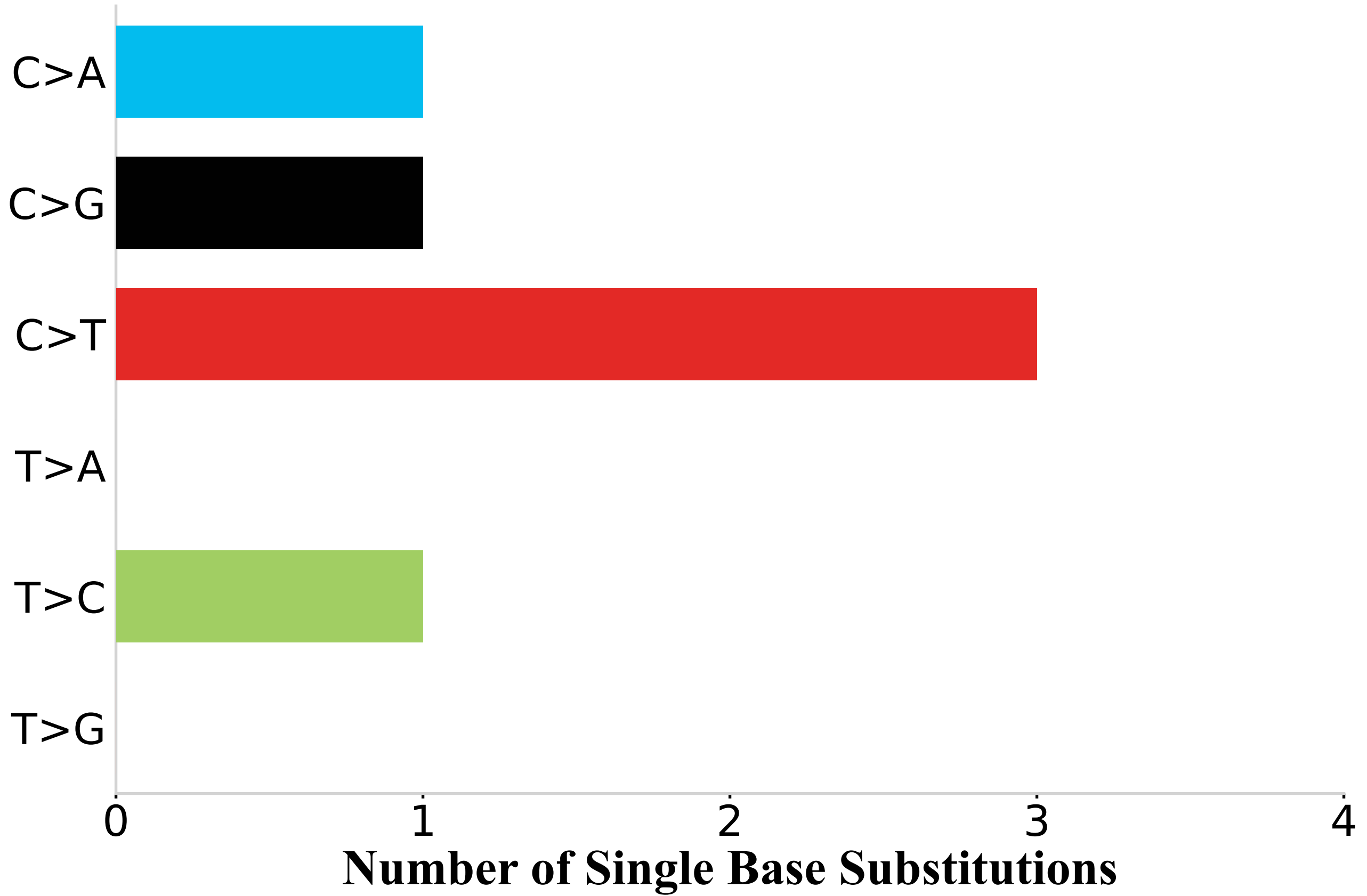
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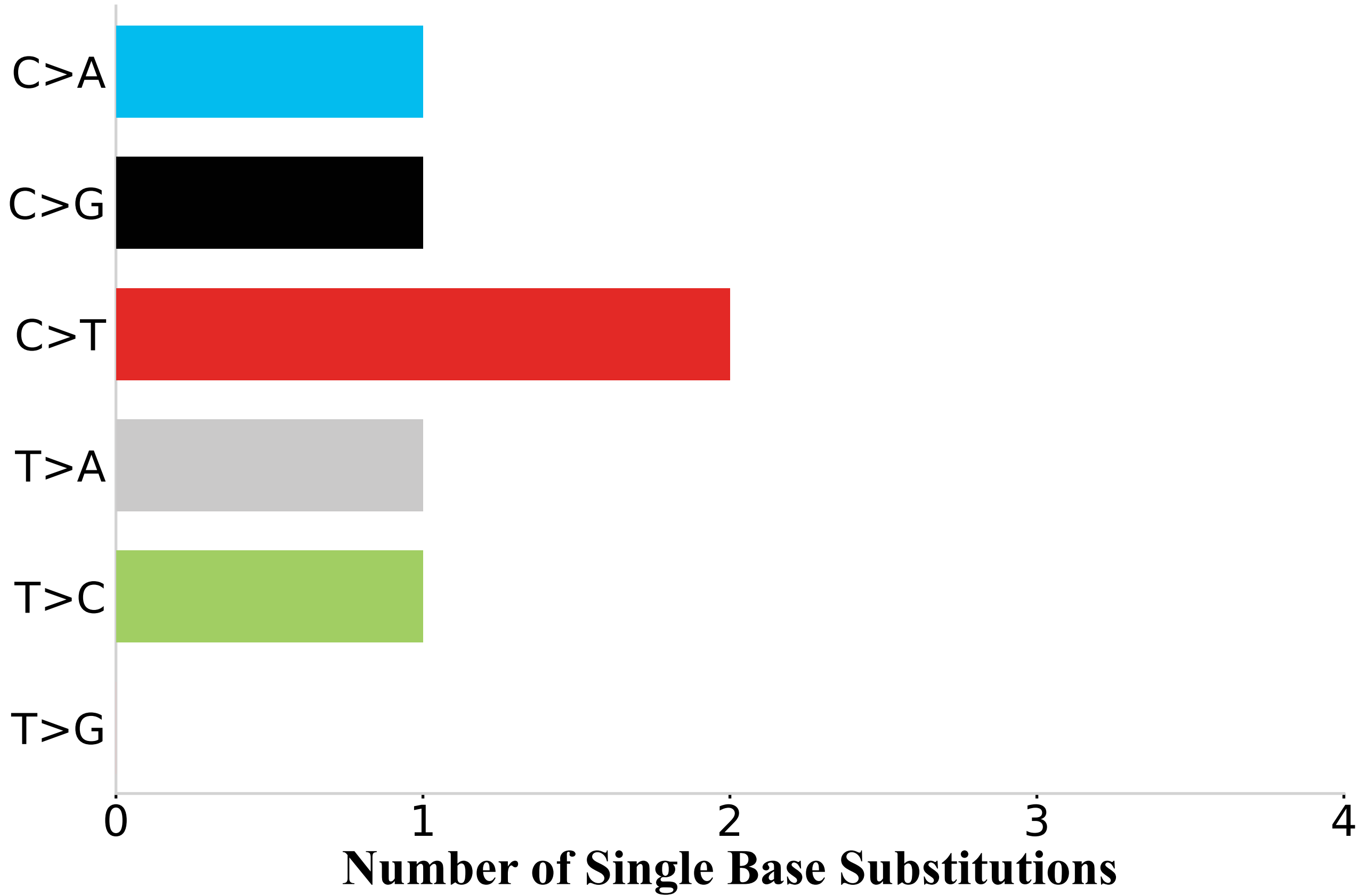
P-0000103-T01-IM3: 6 subs



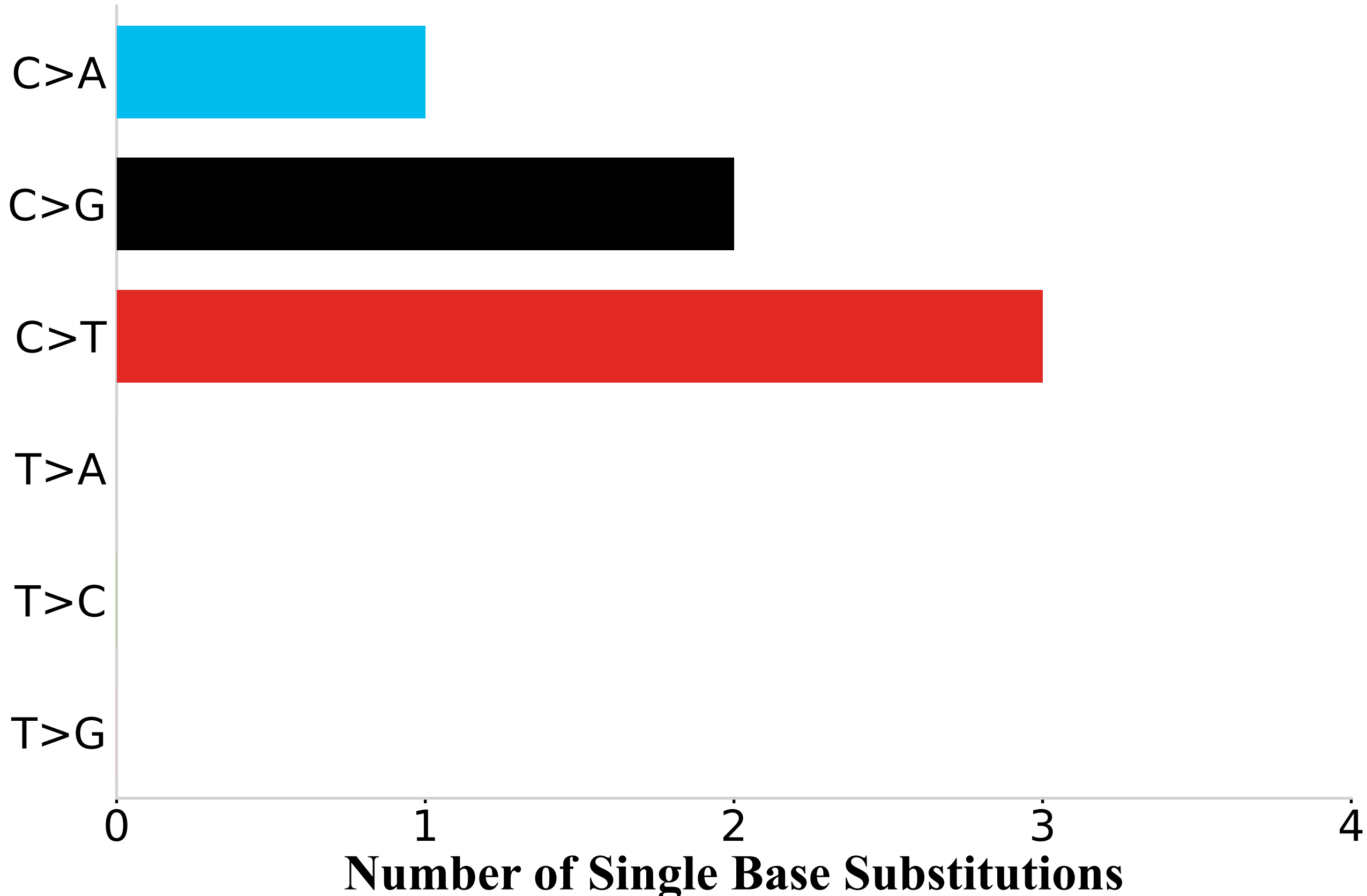
P-0000112-T01-IM3: 6 subs



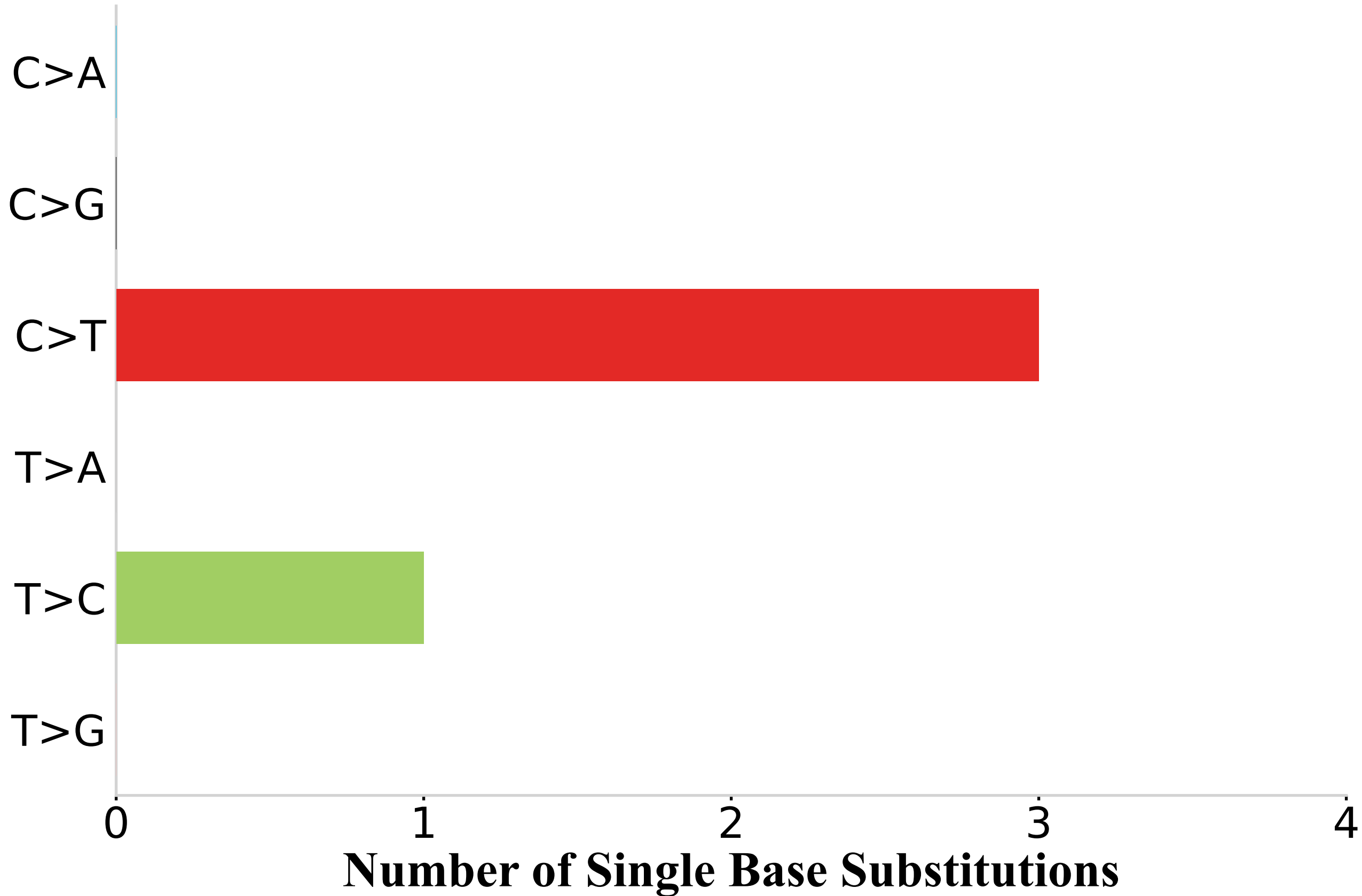
P-0000115-T01-IM3: 6 subs



P-0000178-T01-IM3: 6 subs



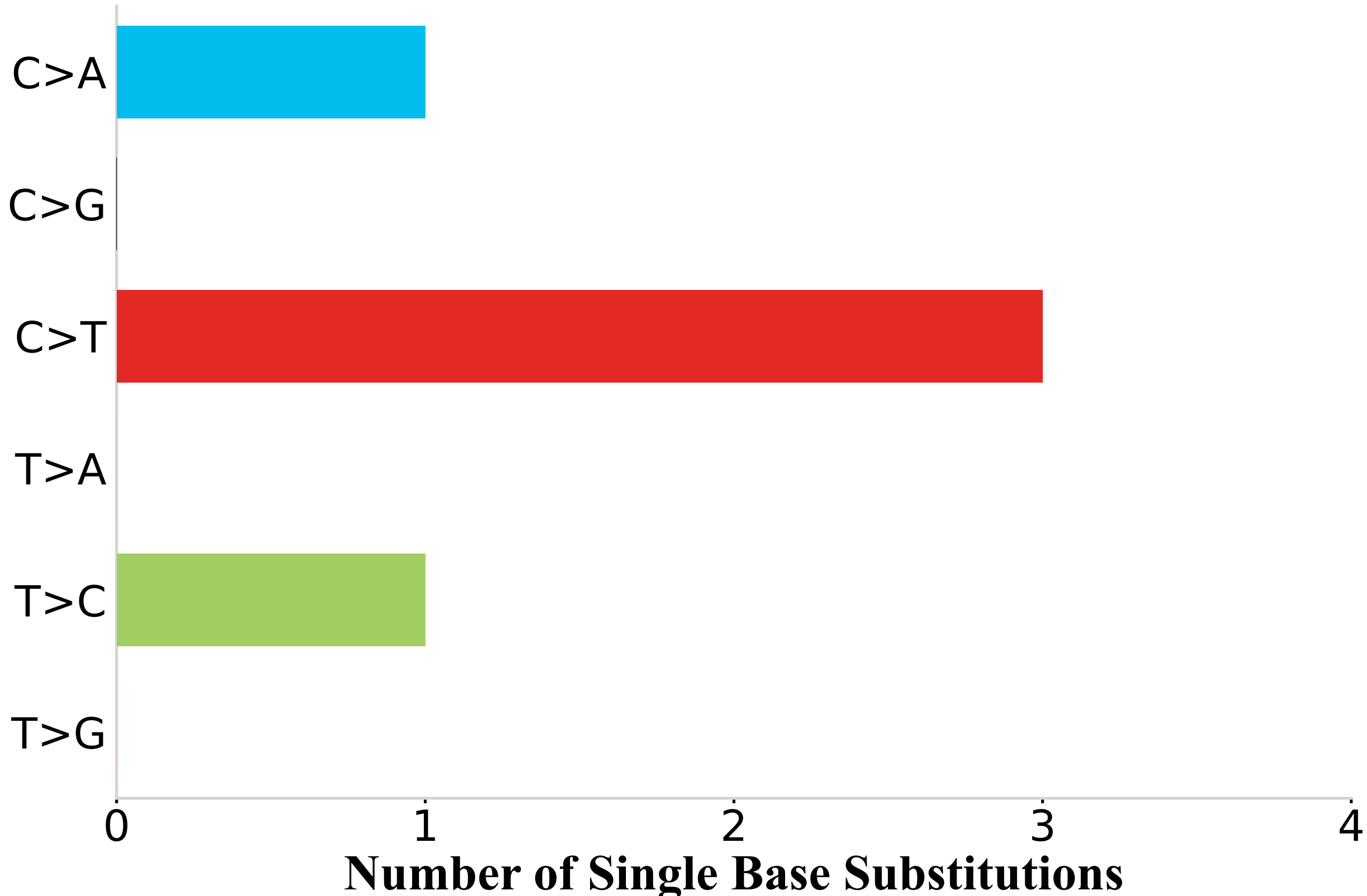
P-0000186-T01-IM3: 4 subs



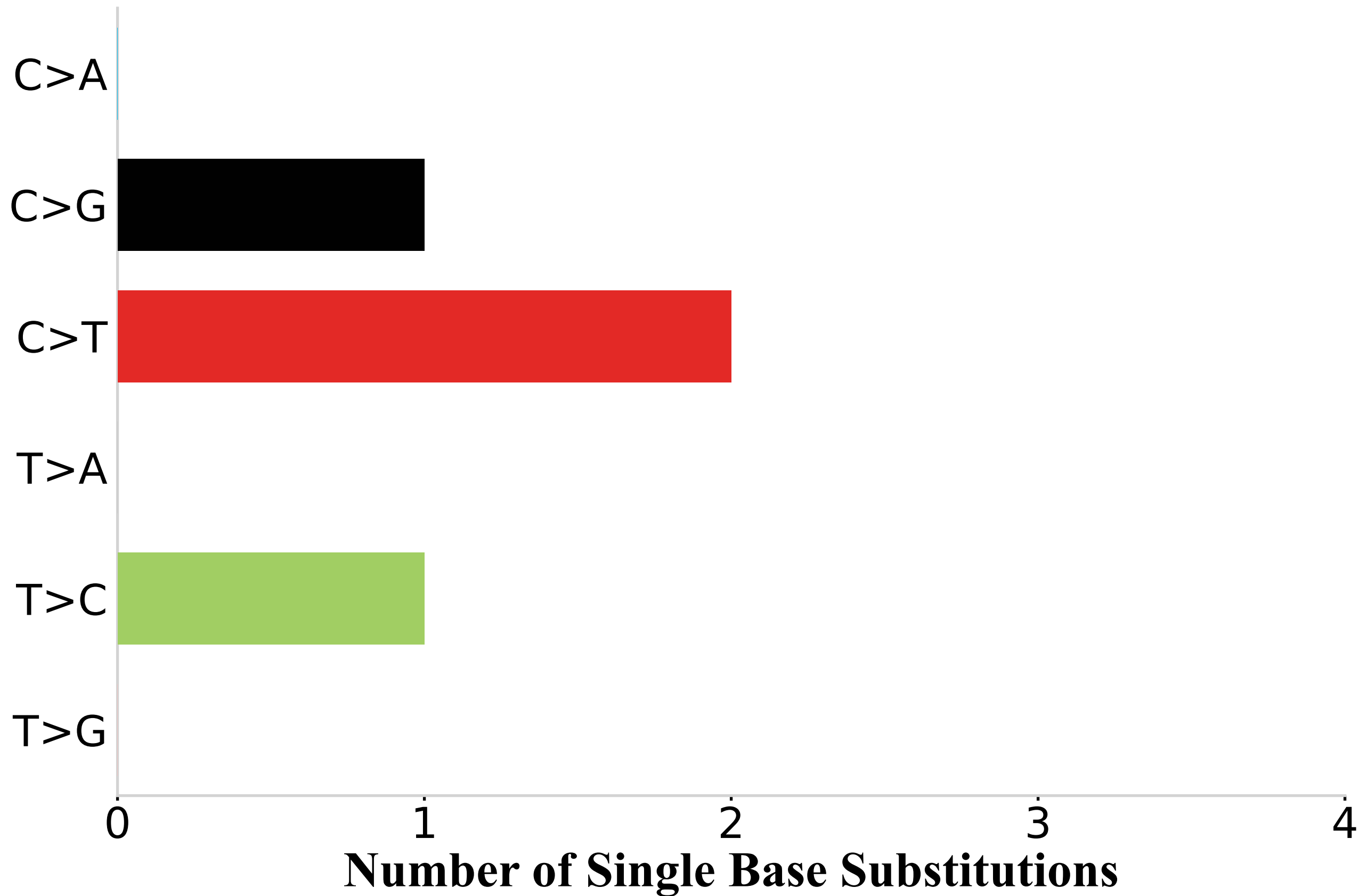
P-0000221-T01-IM3: 1 subs



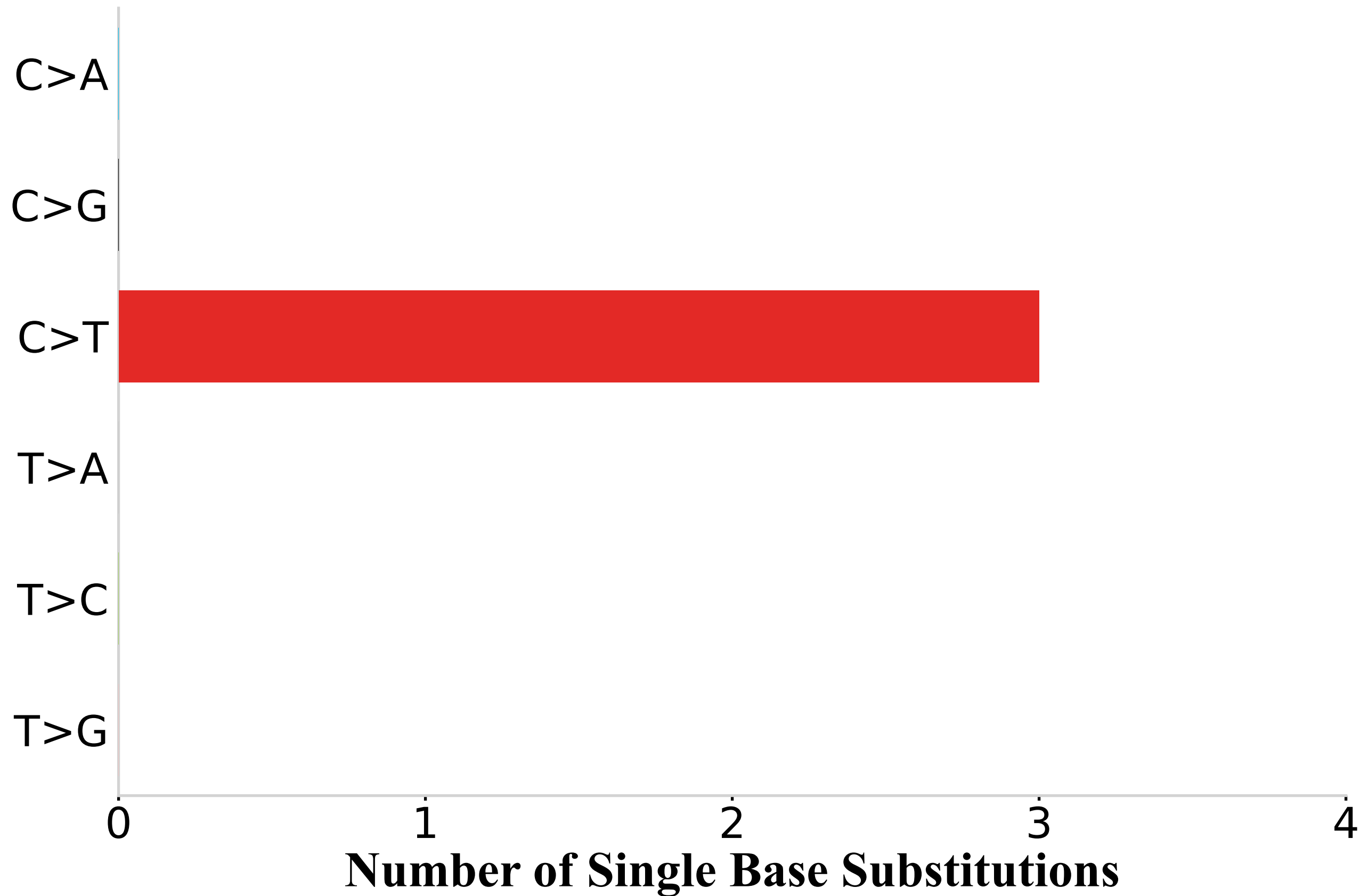
P-0000225-T01-IM3: 5 subs



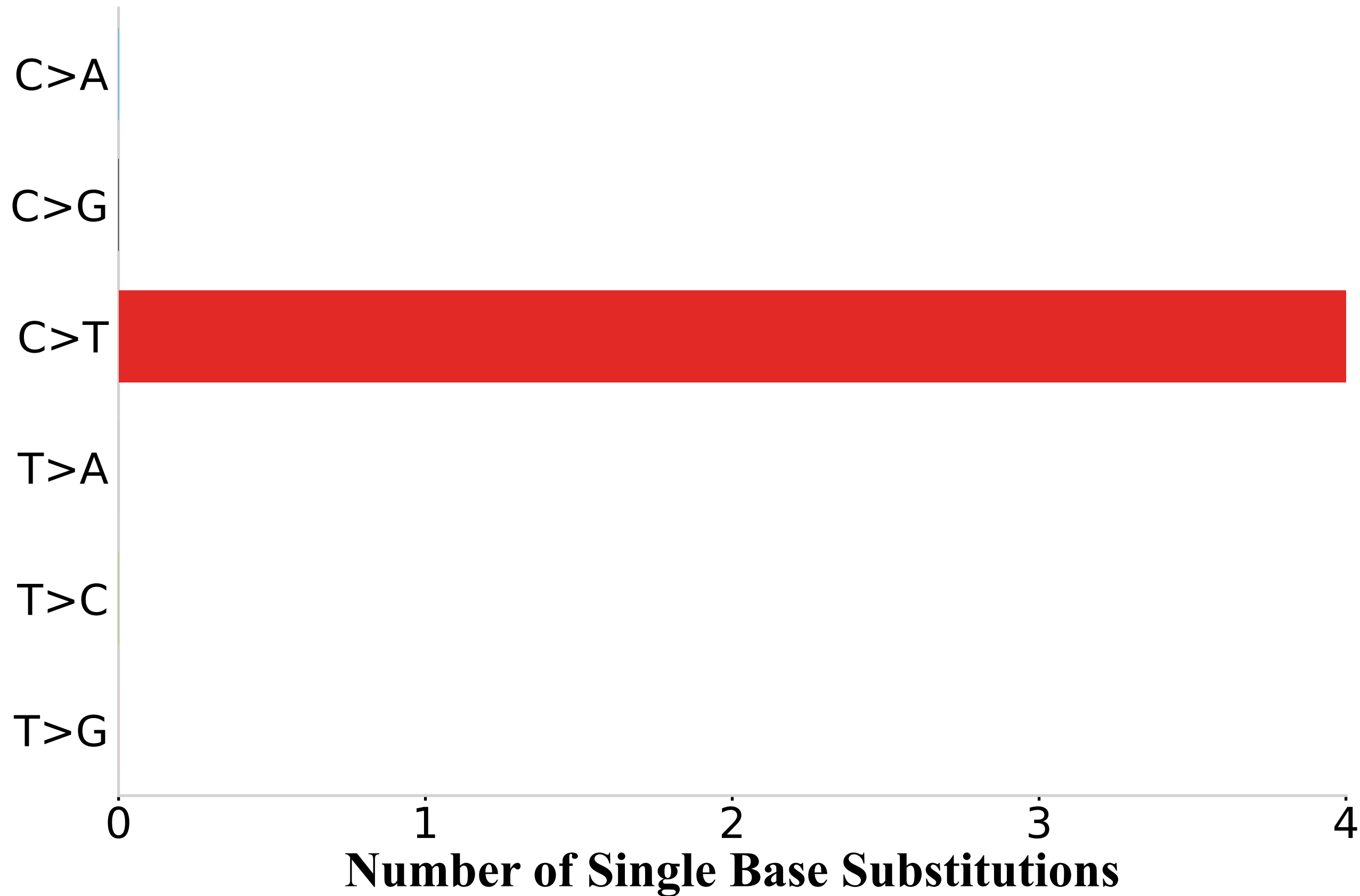
P-0000342-T01-IM3: 4 subs



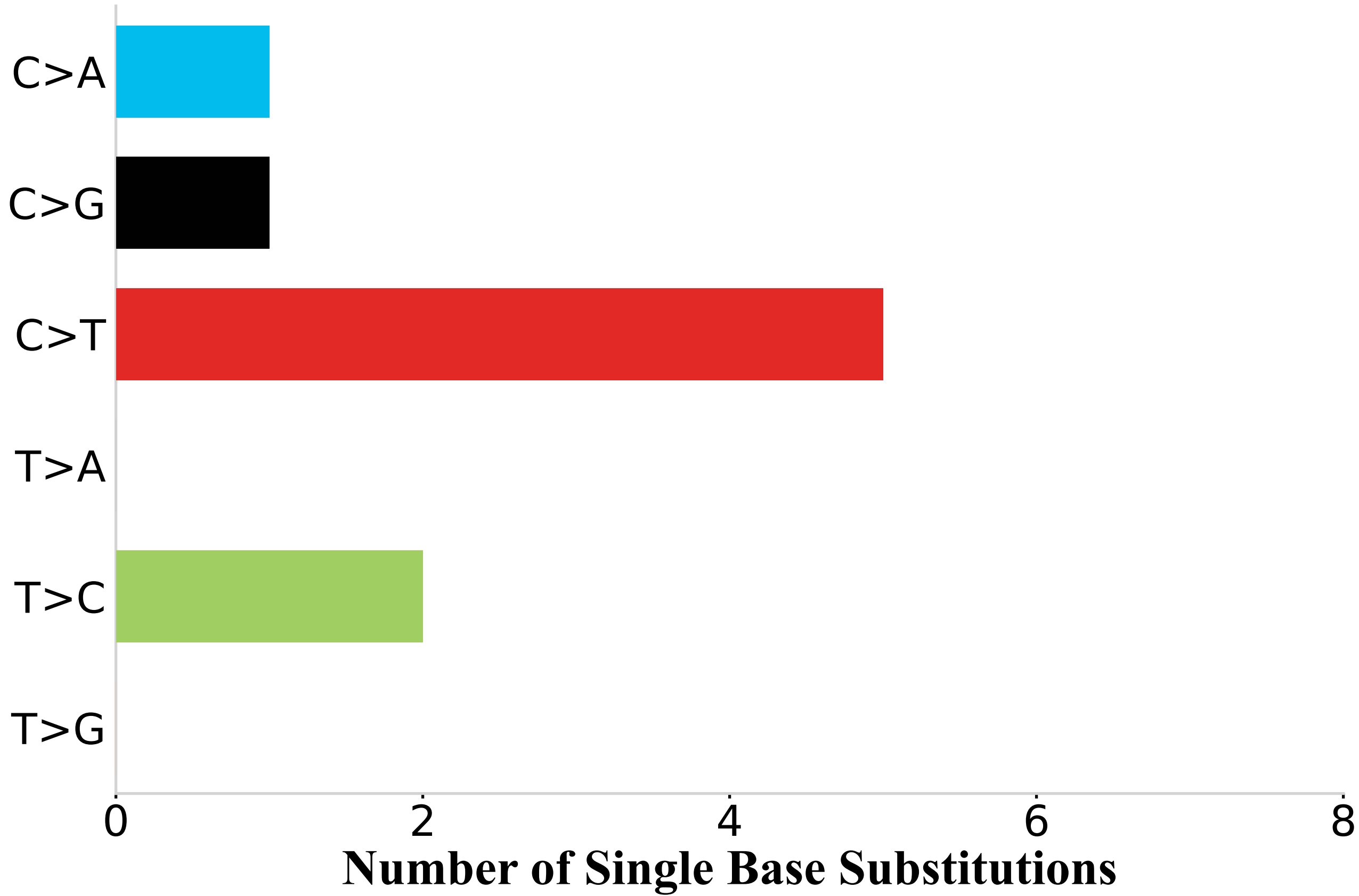
P-0000383-T01-IM3: 3 subs



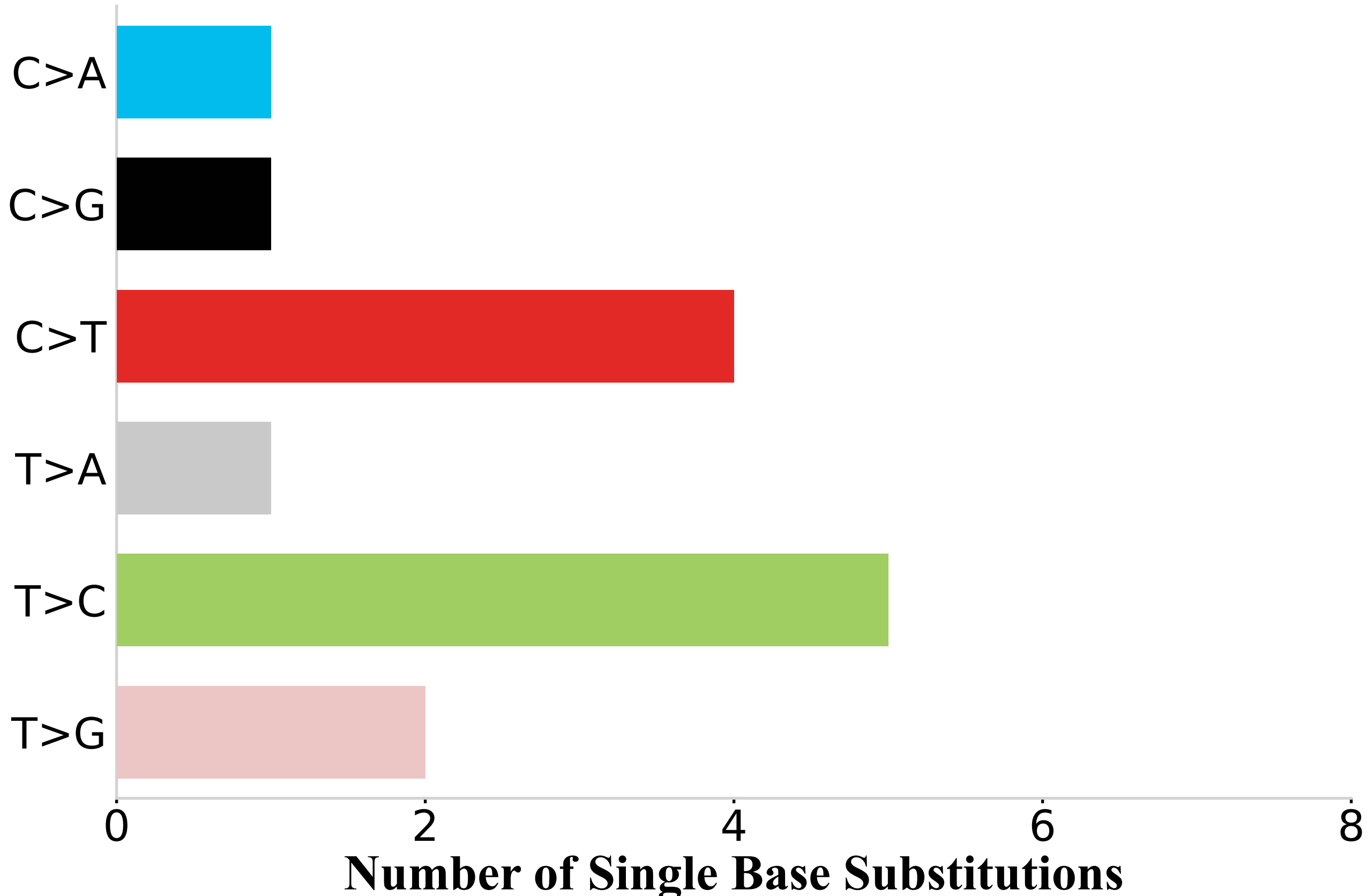
P-0000436-T01-IM3: 4 subs



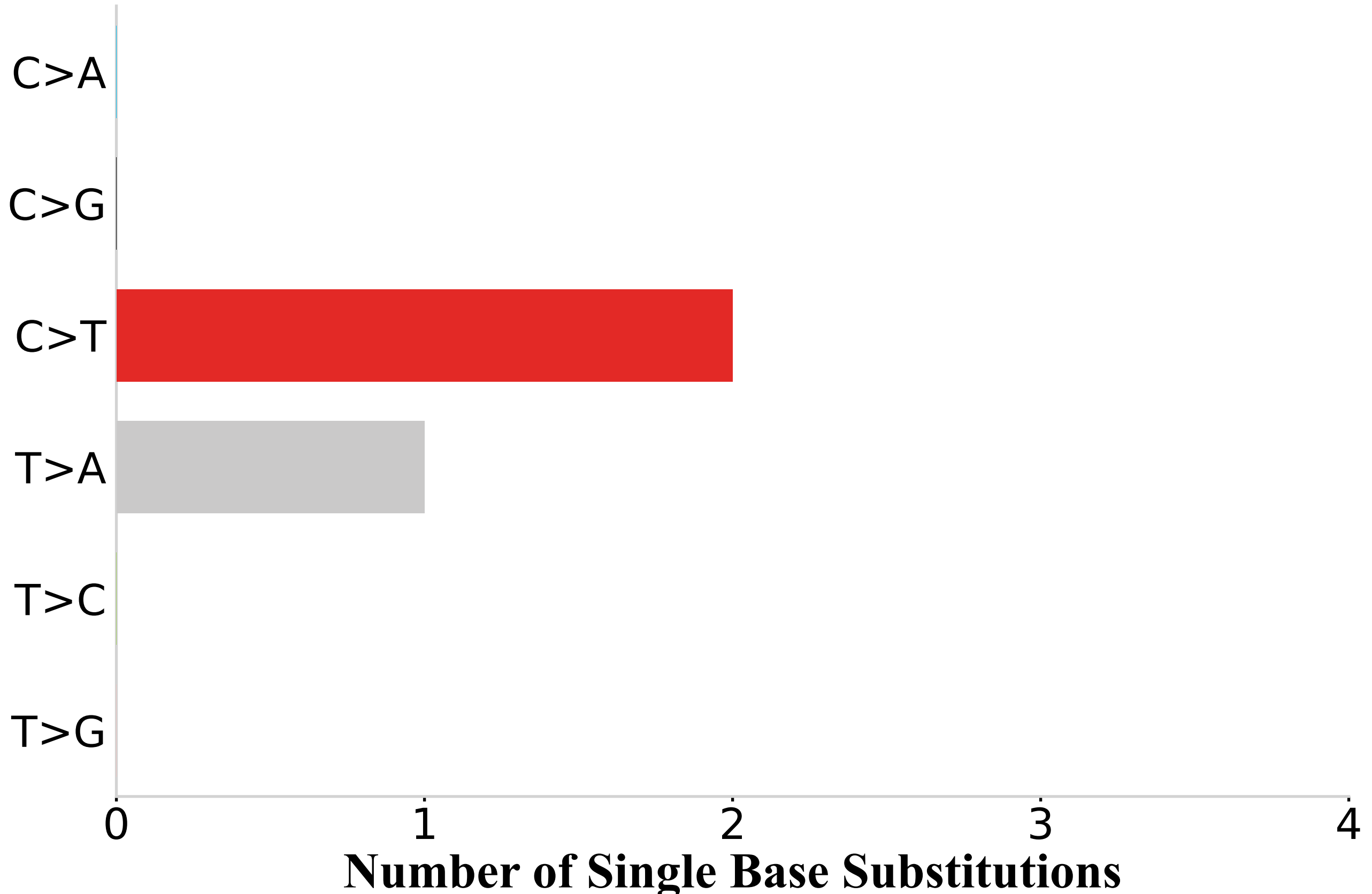
P-0000444-T02-IM5: 9 subs



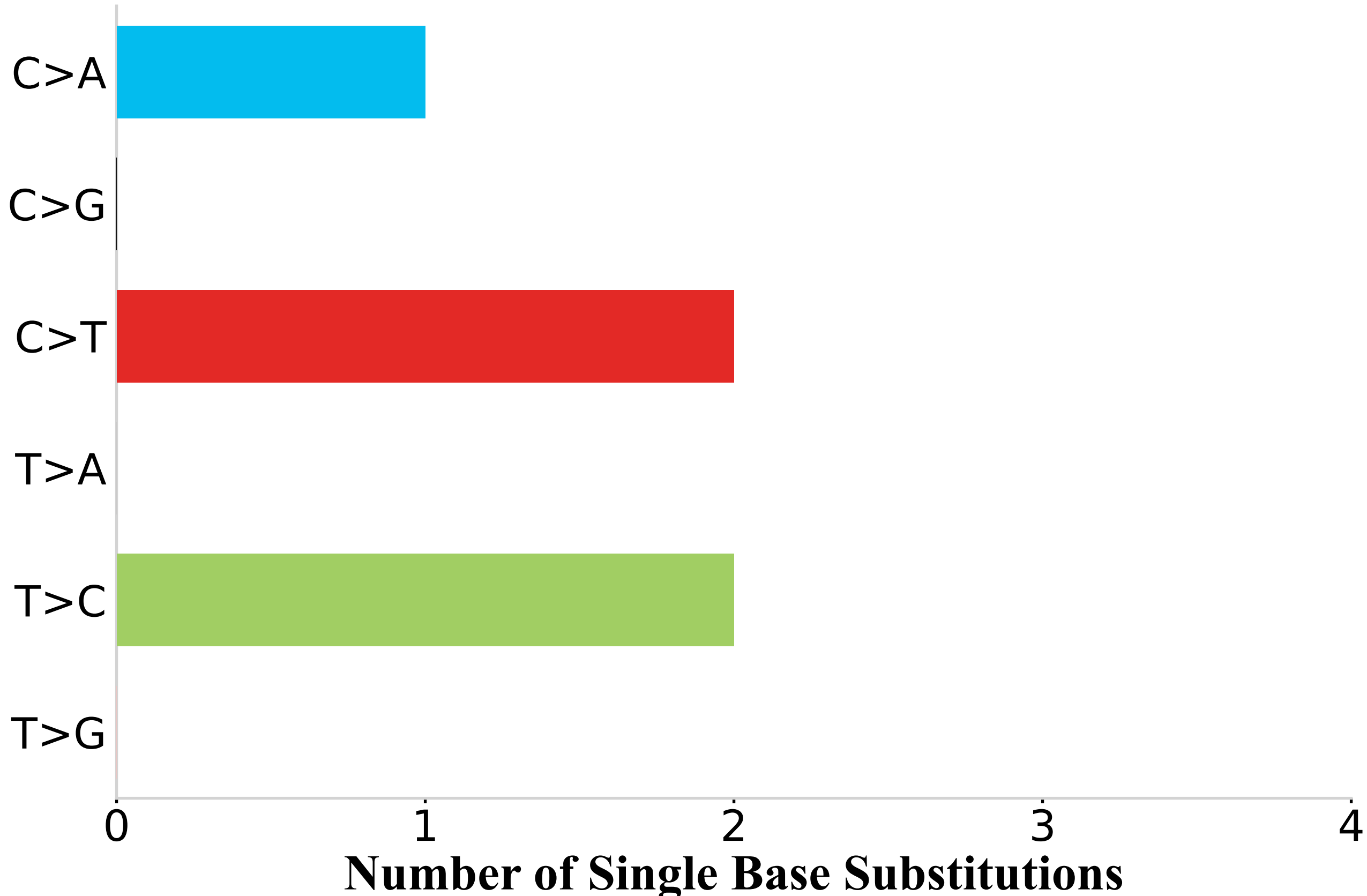
P-0000485-T01-IM3: 14 subs



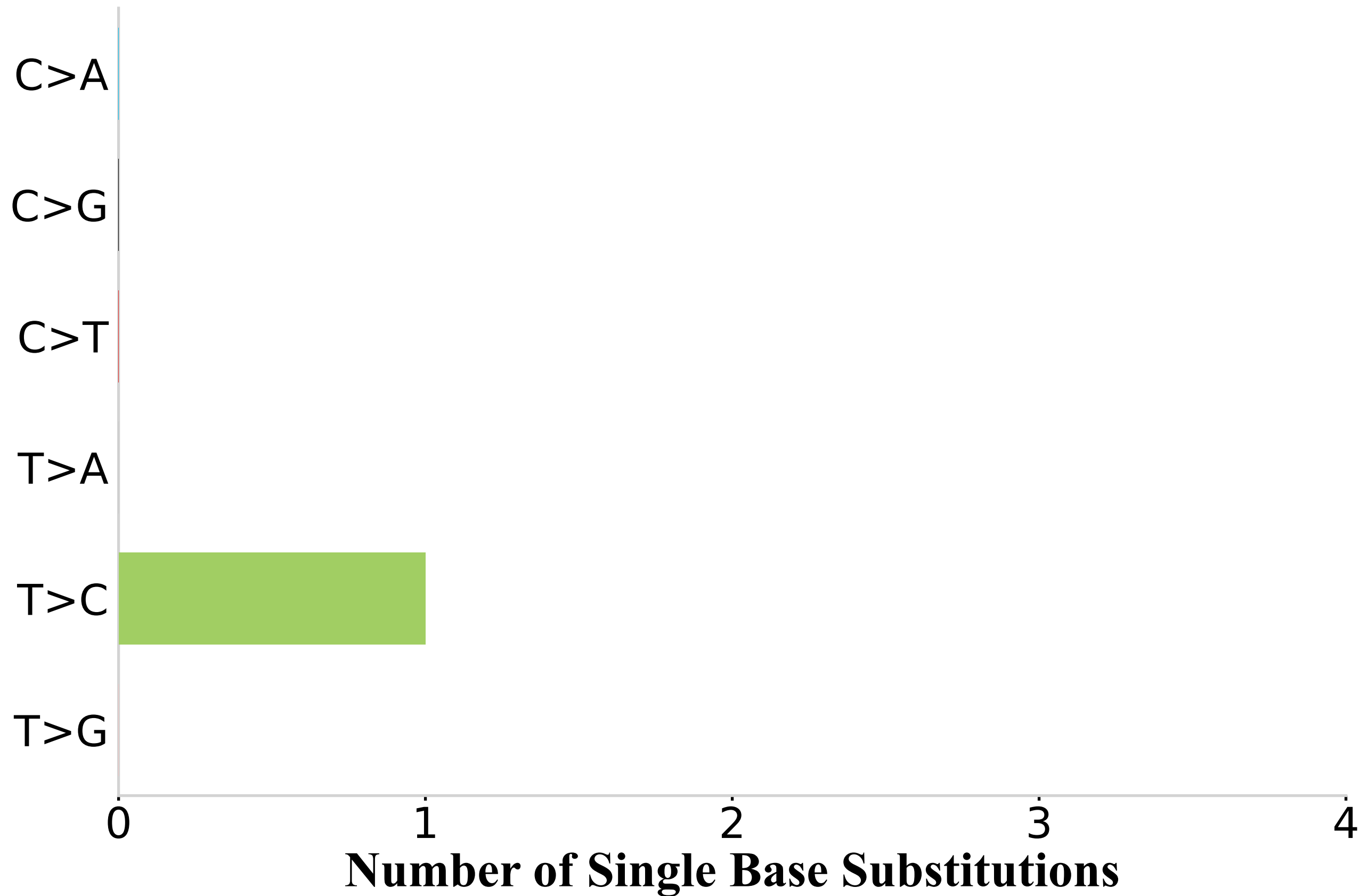
P-0000538-T01-IM3: 3 subs



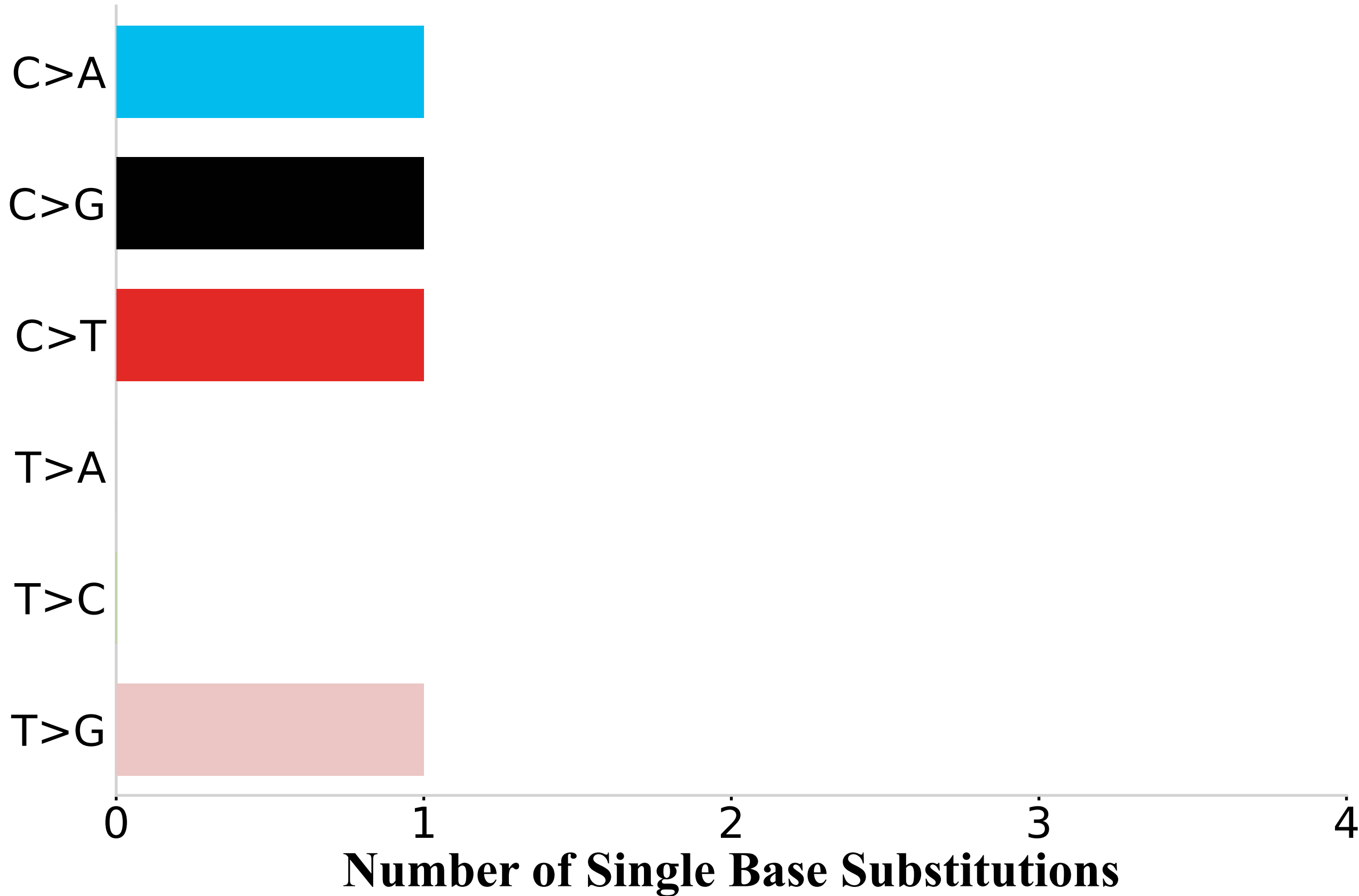
P-0000716-T01-IM3: 5 subs



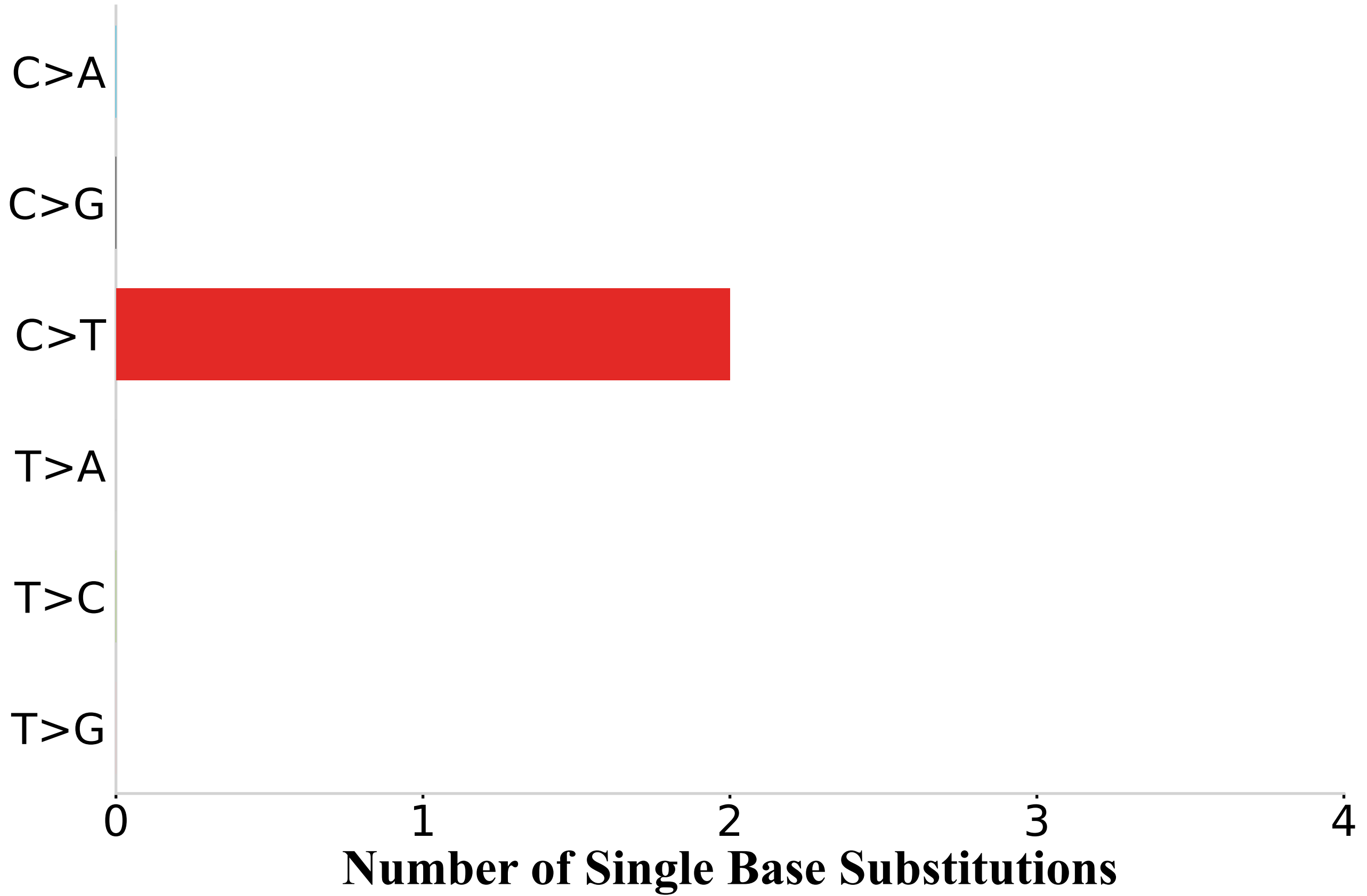
P-0000722-T01-IM3: 1 subs



P-0000751-T01-IM3: 4 subs



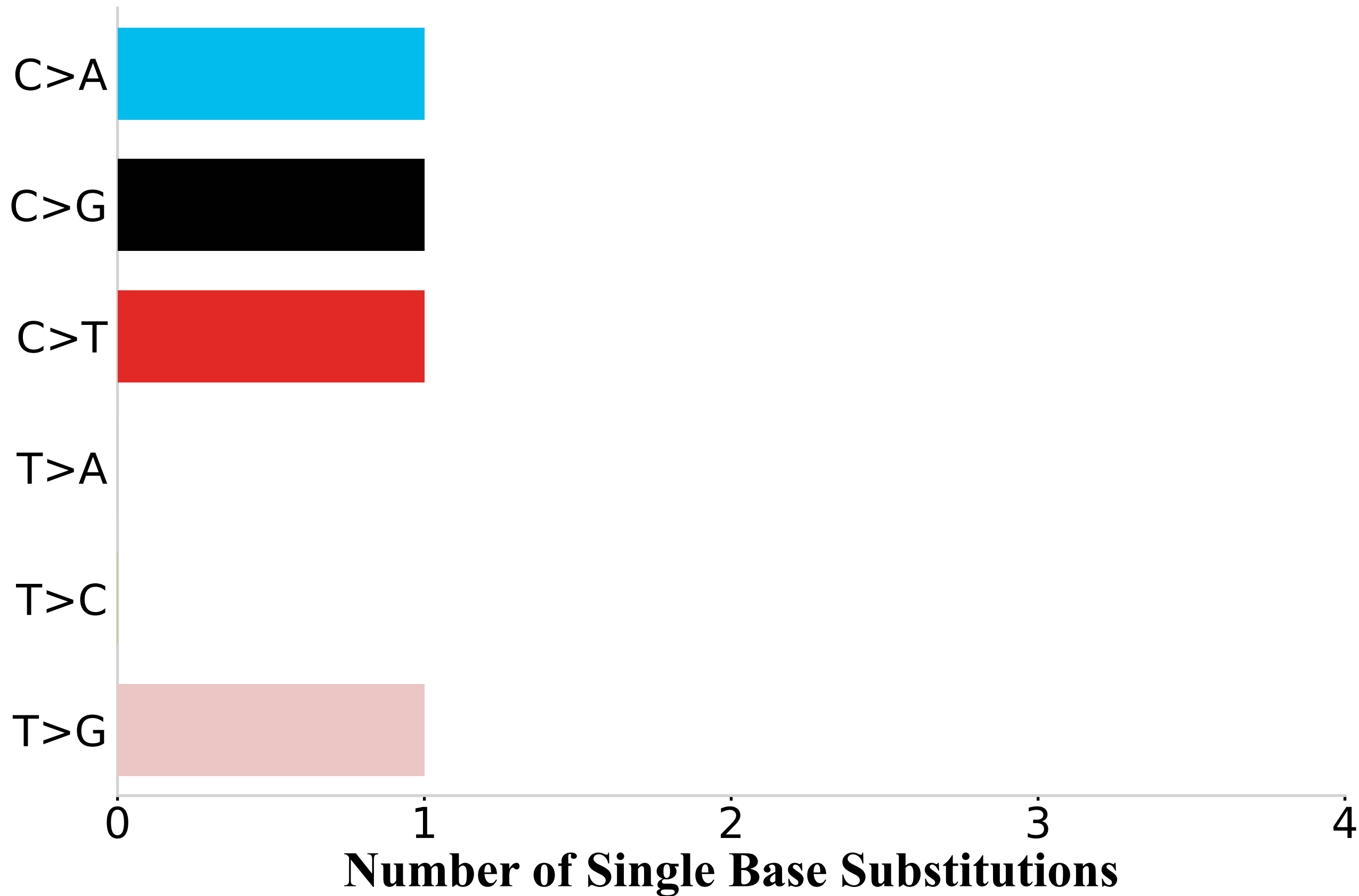
P-0000776-T01-IM3: 2 subs



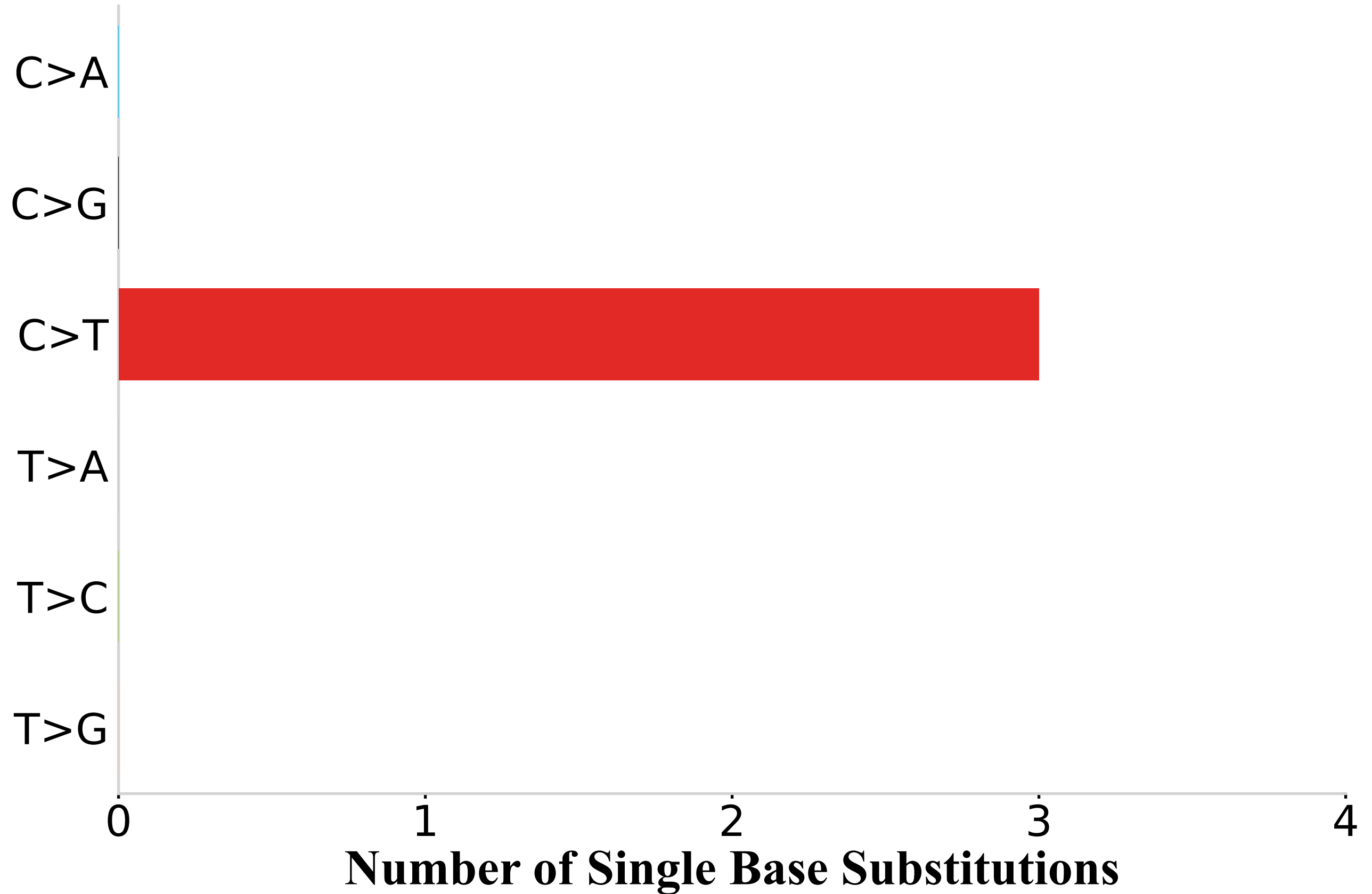
P-0000787-T01-IM3: 1 subs



P-0000793-T02-IM5: 4 subs



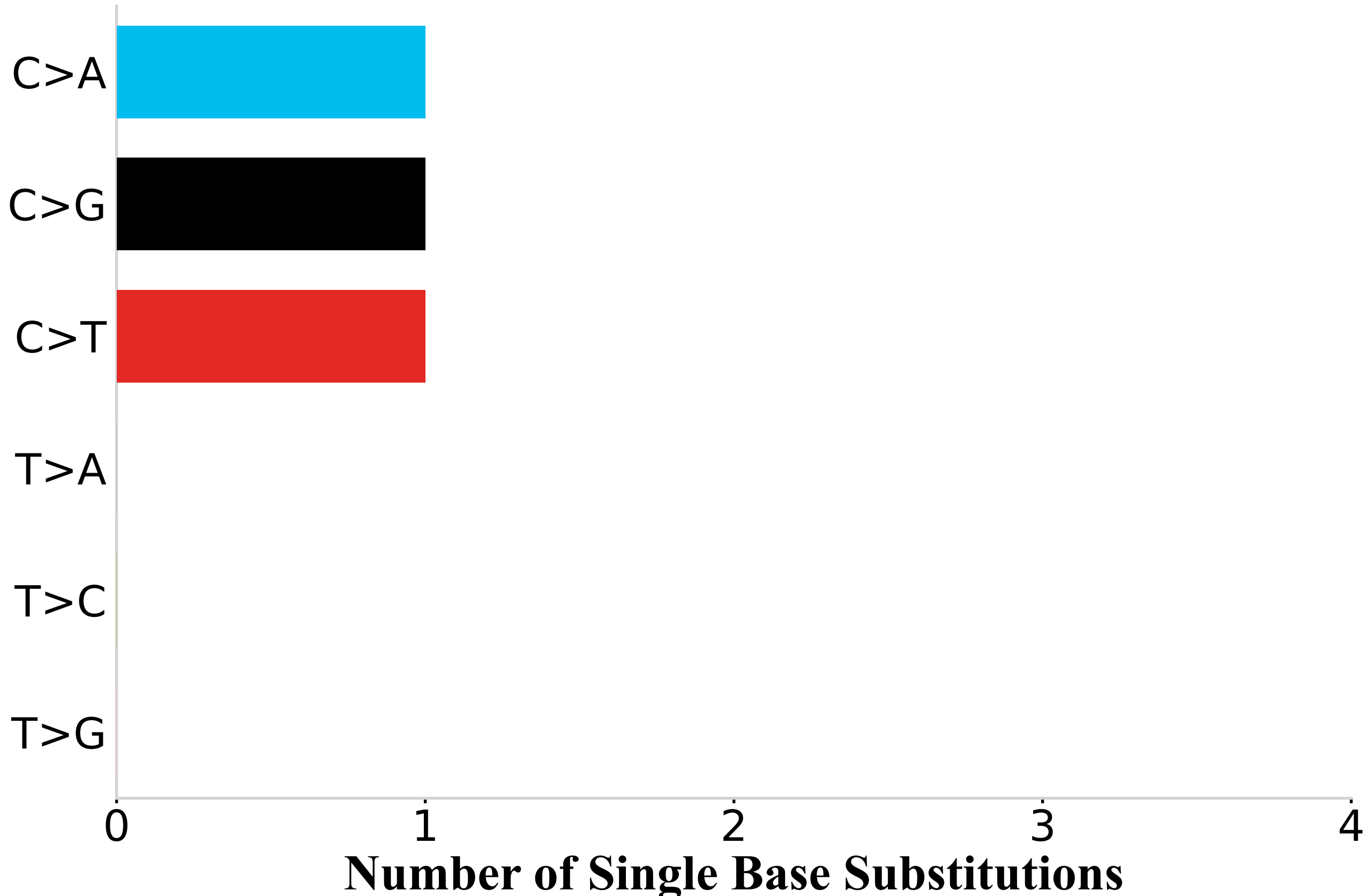
P-0000870-T01-IM3: 3 subs



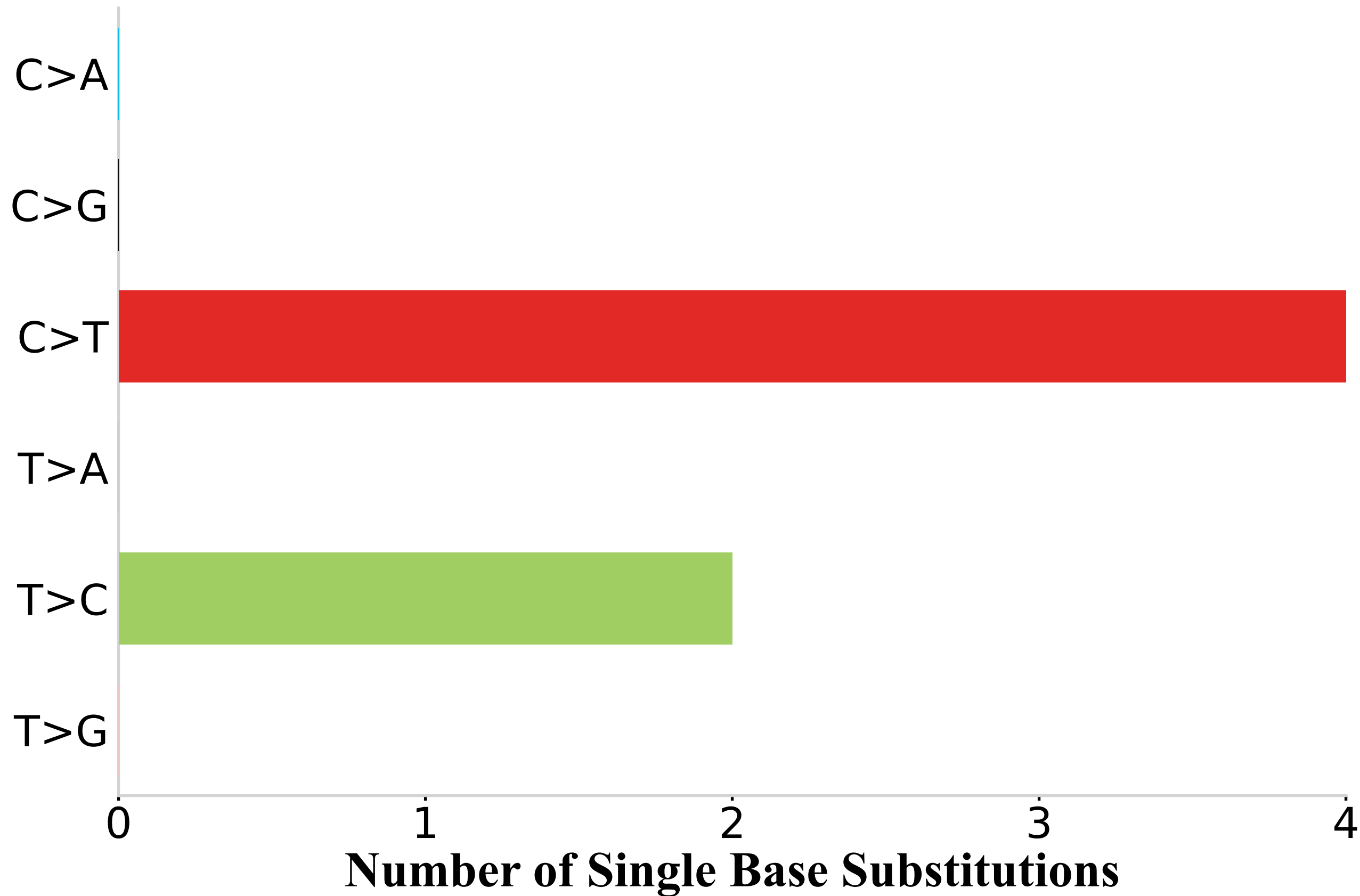
P-0000899-T01-IM3: 4 subs



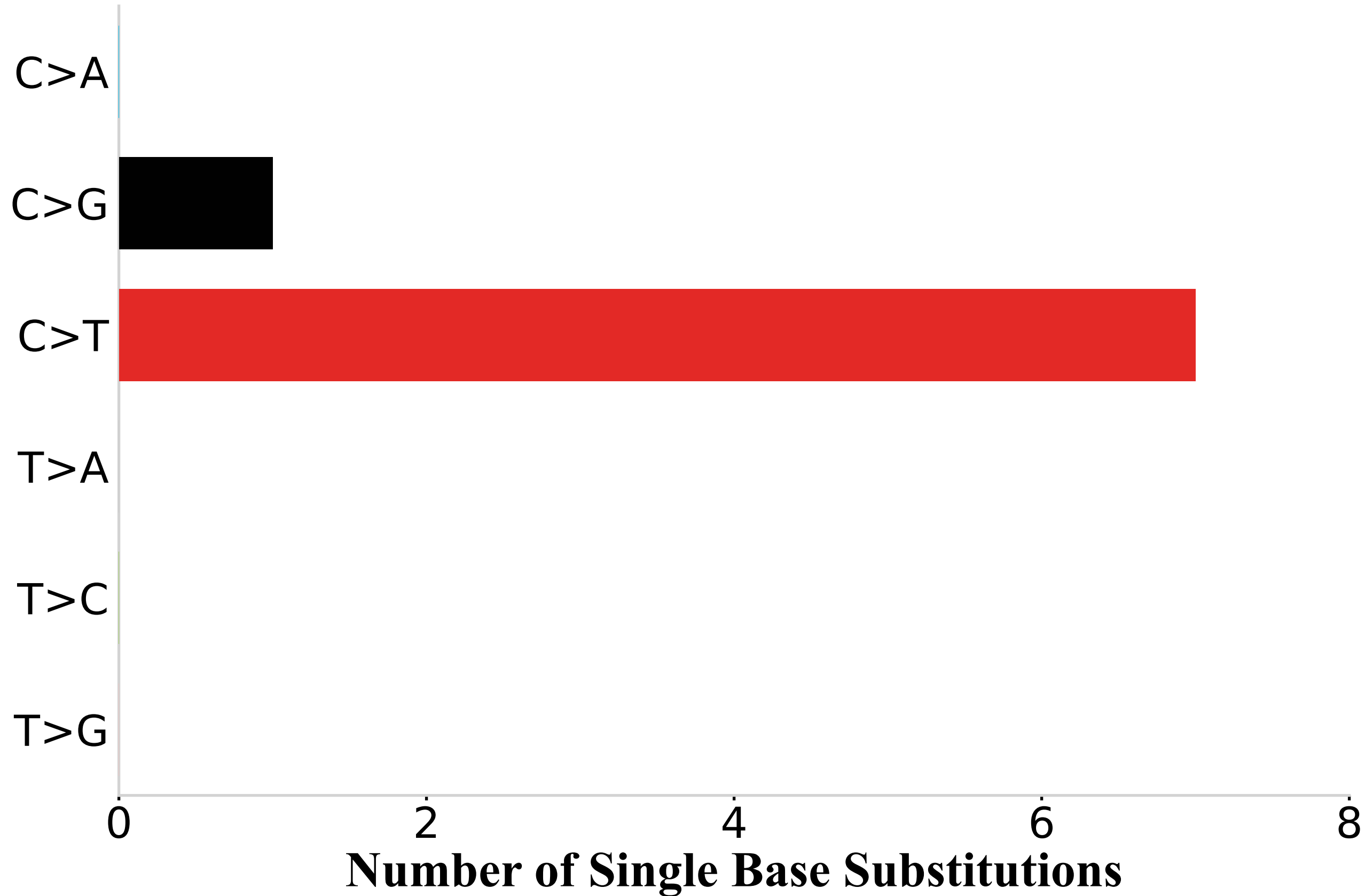
P-0000938-T01-IM3: 3 subs



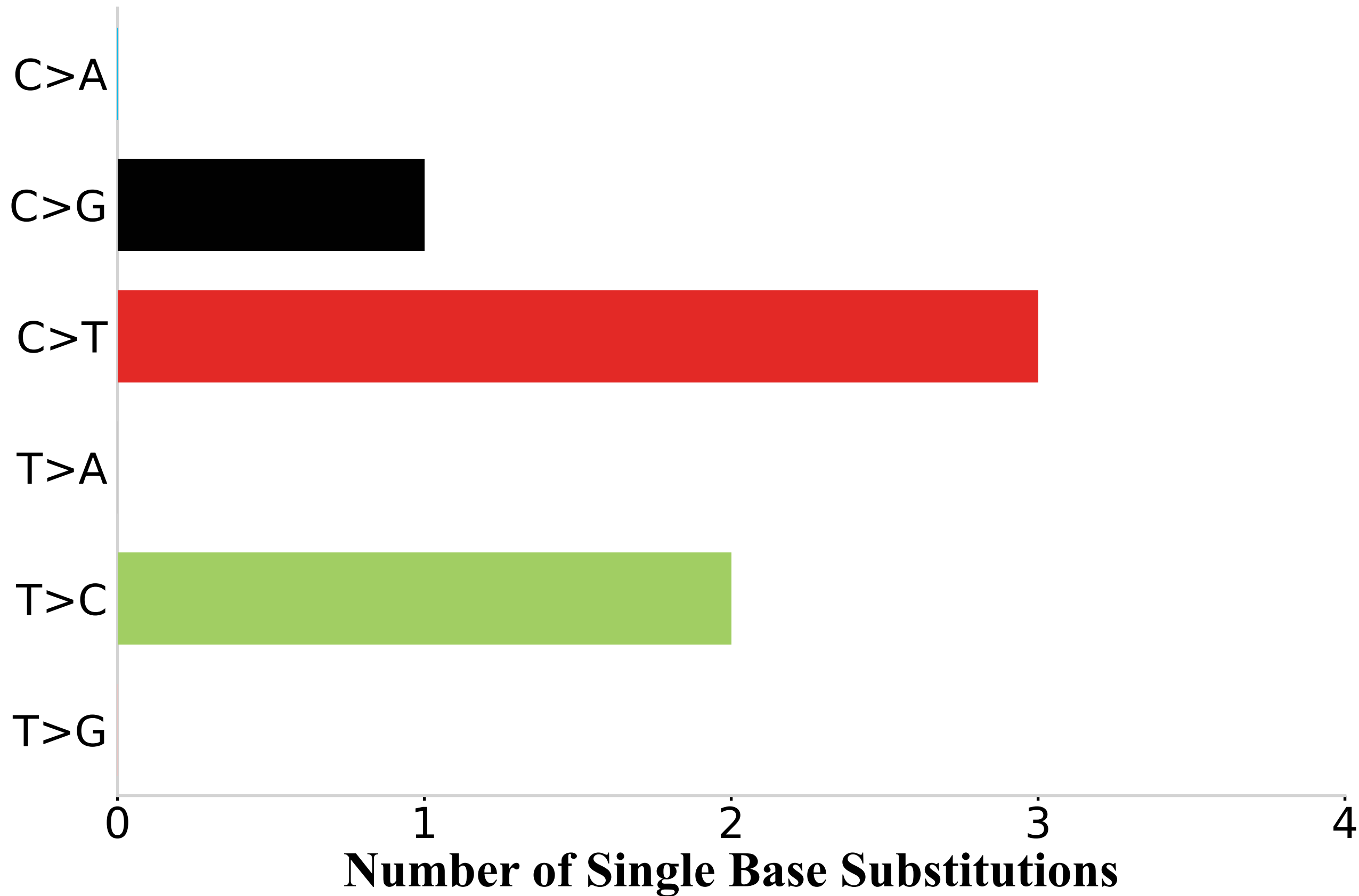
P-0000977-T01-IM3: 6 subs



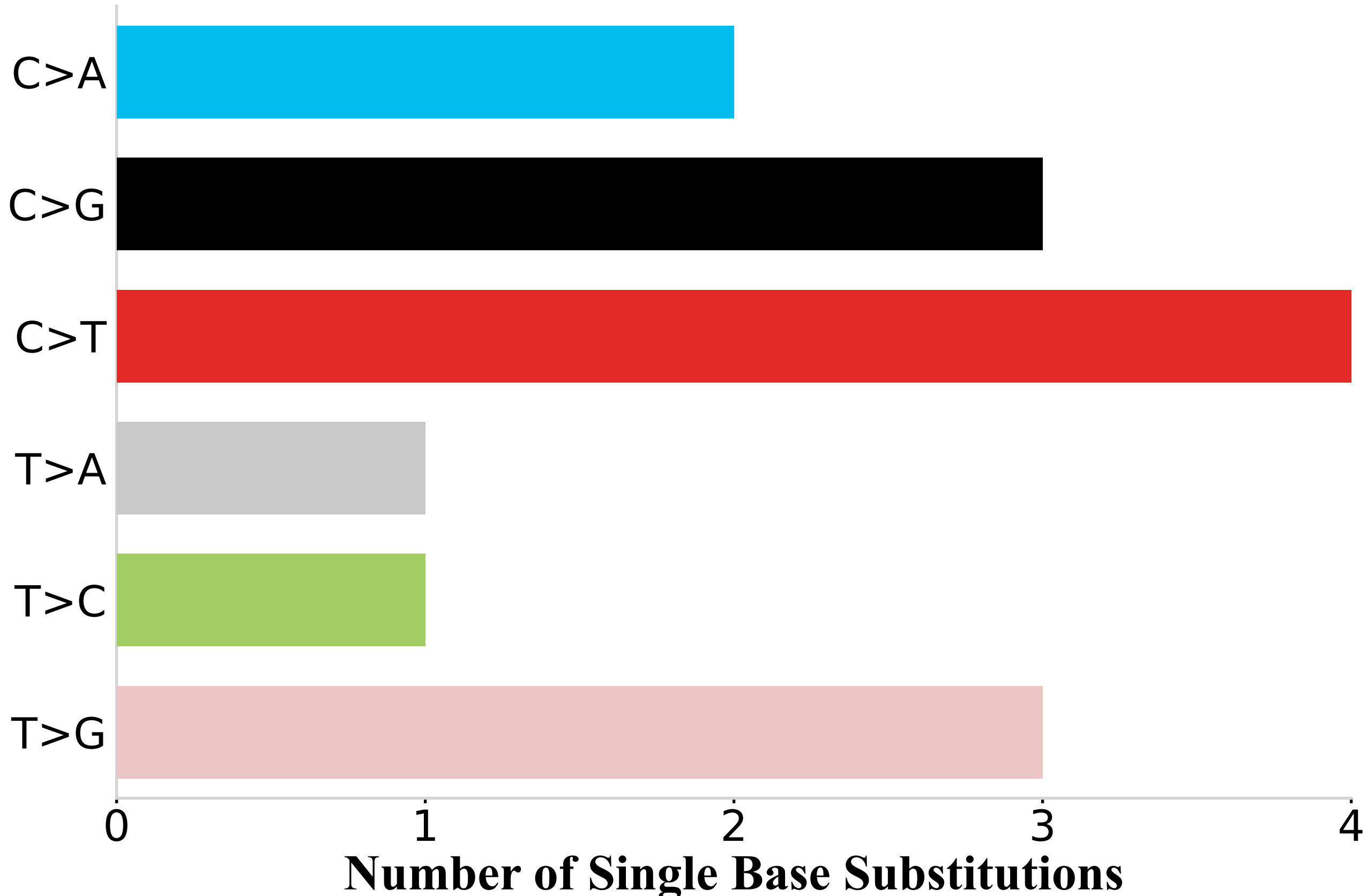
P-0000991-T01-IM3: 8 subs



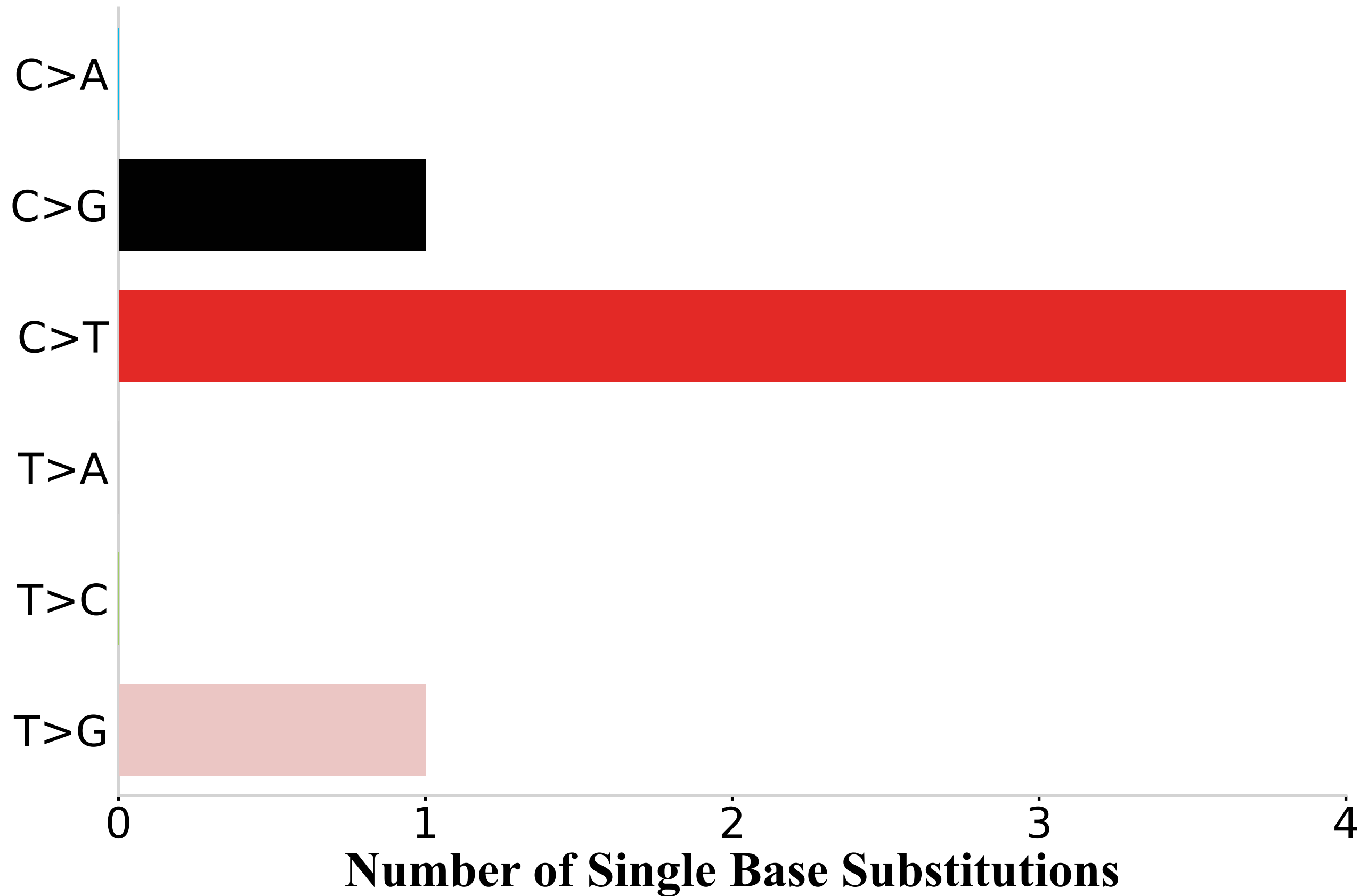
P-0001023-T01-IM3: 6 subs



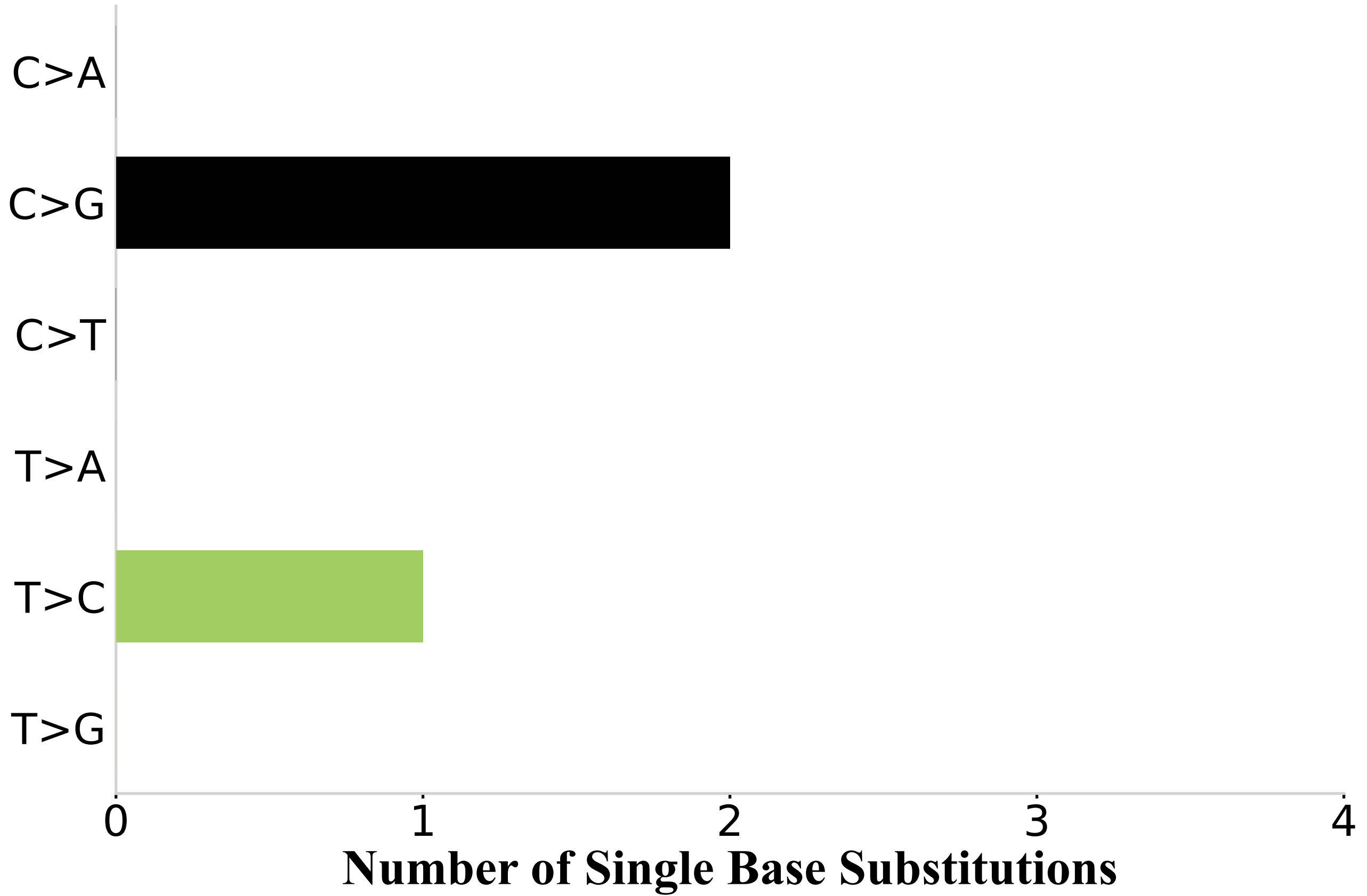
P-0001047-T02-IM5: 14 subs



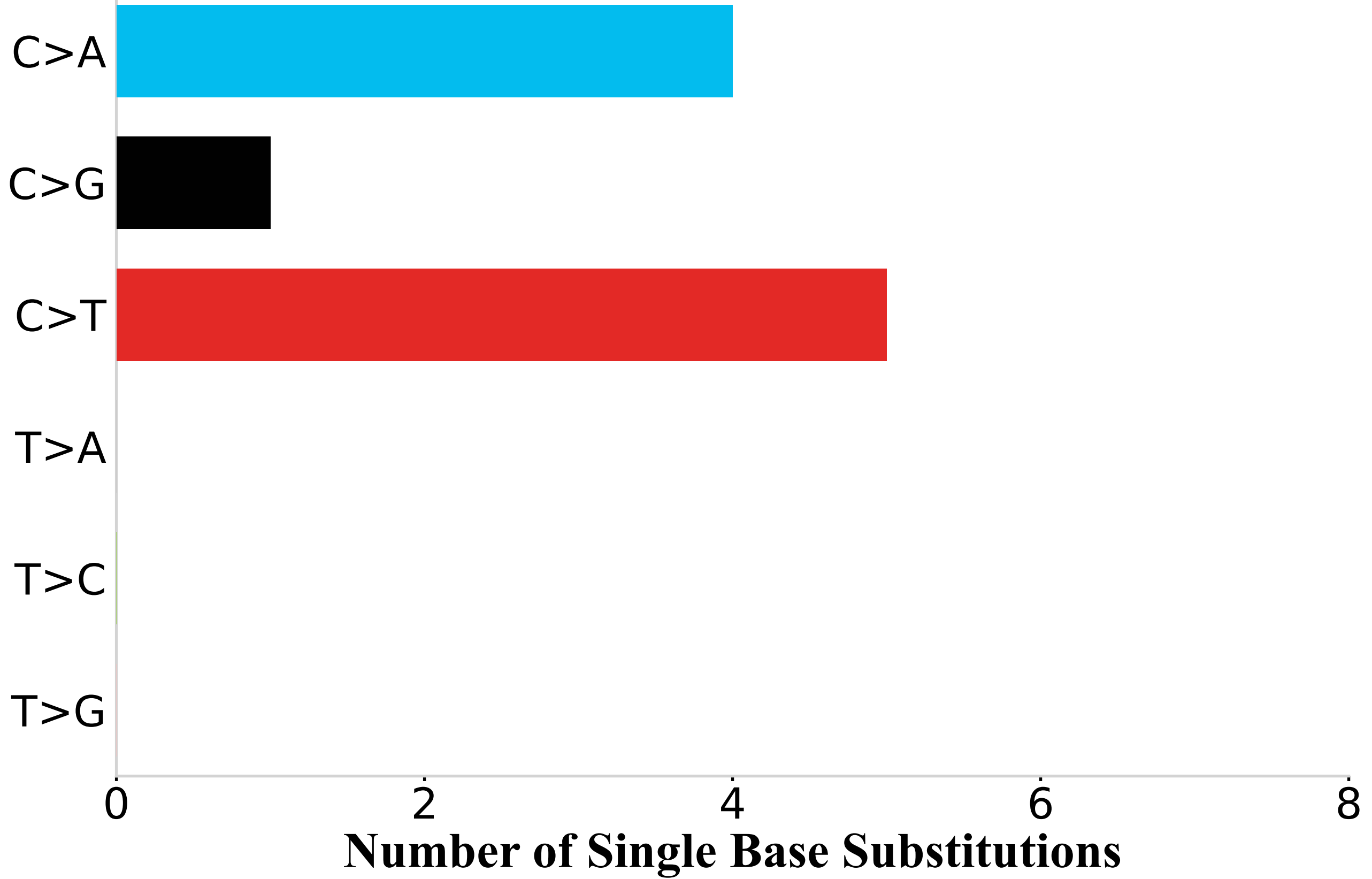
P-0001077-T01-IM3: 6 subs



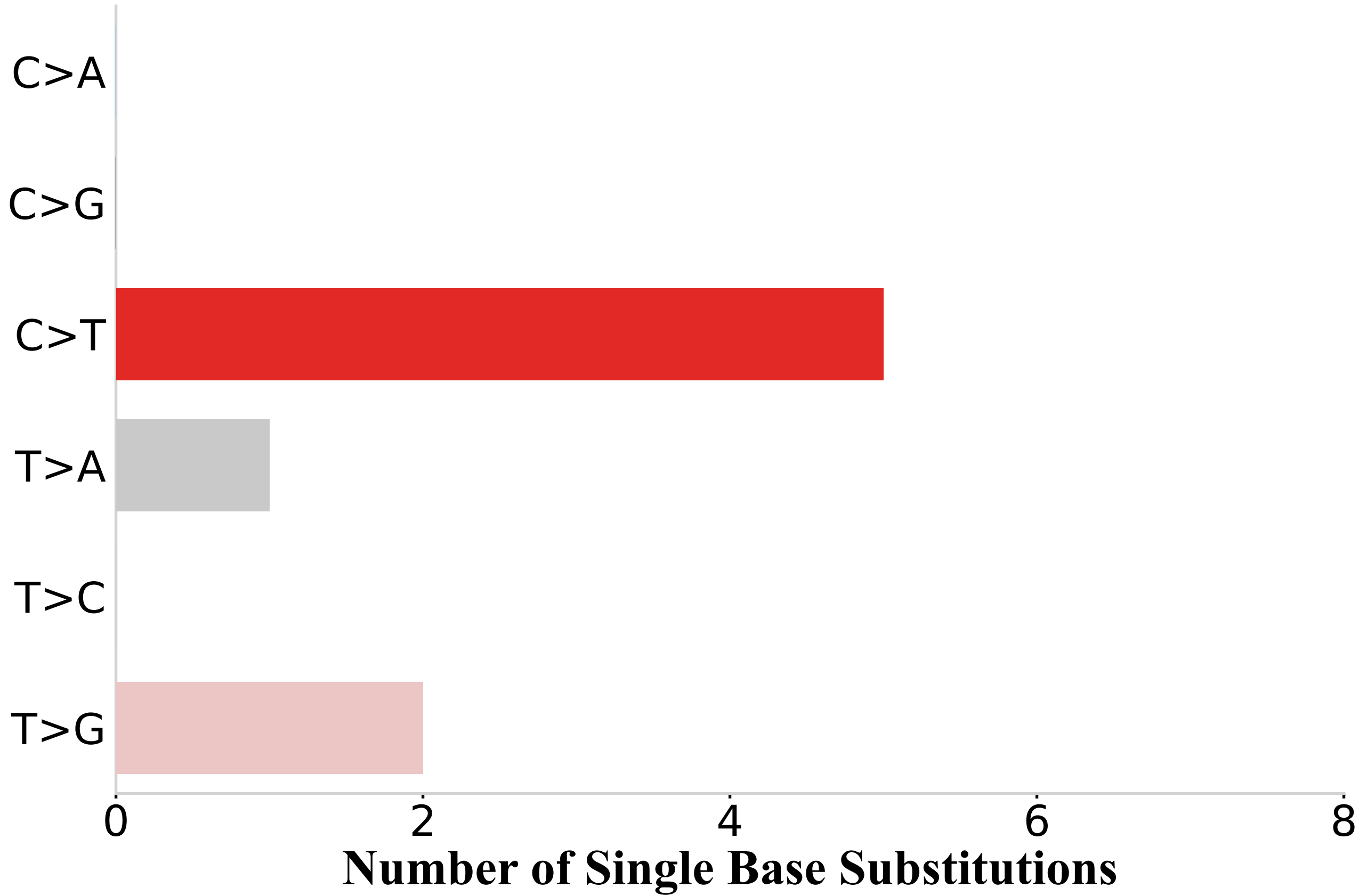
P-0001137-T01-IM3: 3 subs



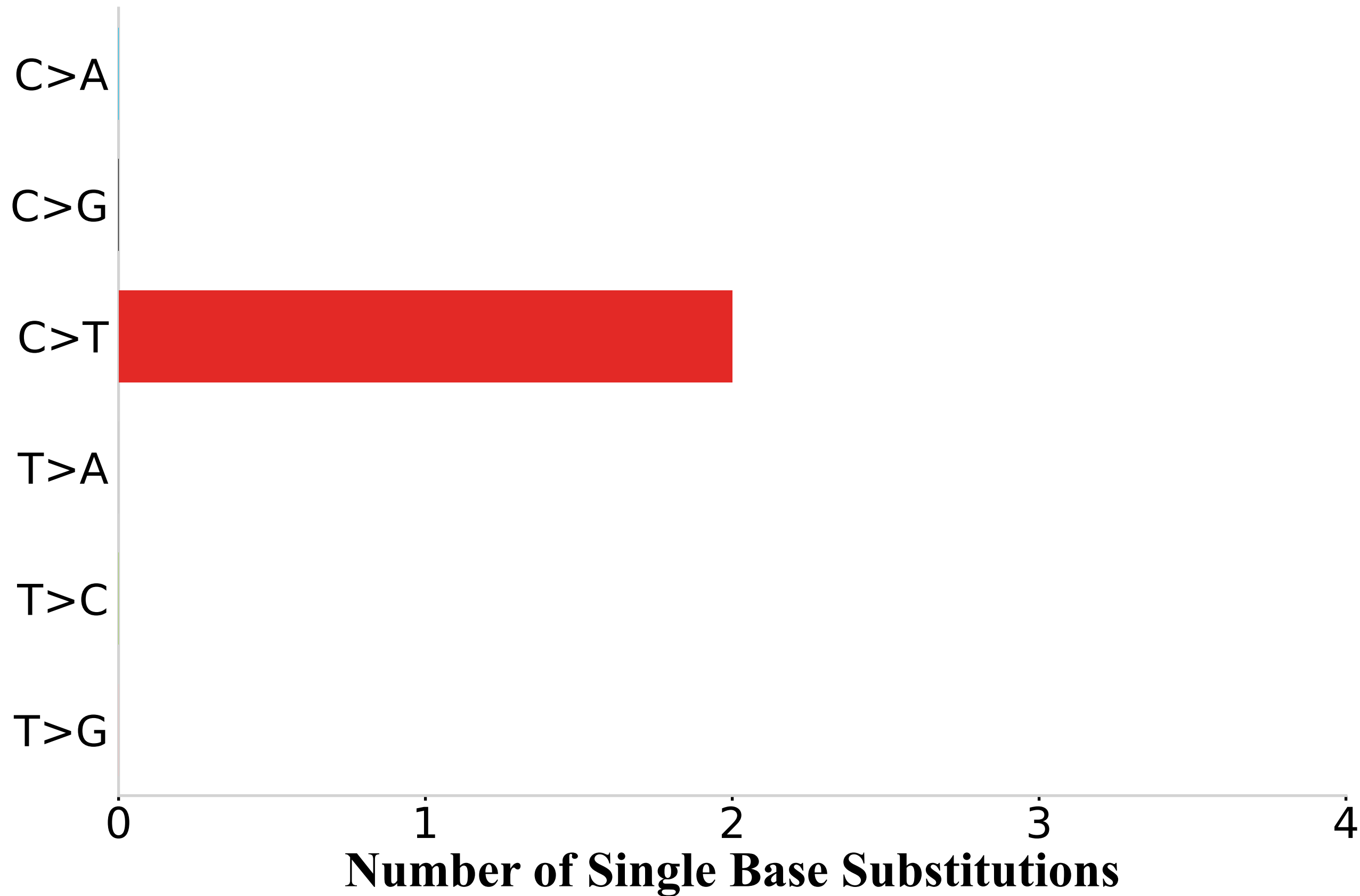
P-0001194-T01-IM3: 10 subs



P-0001222-T01-IM3: 8 subs



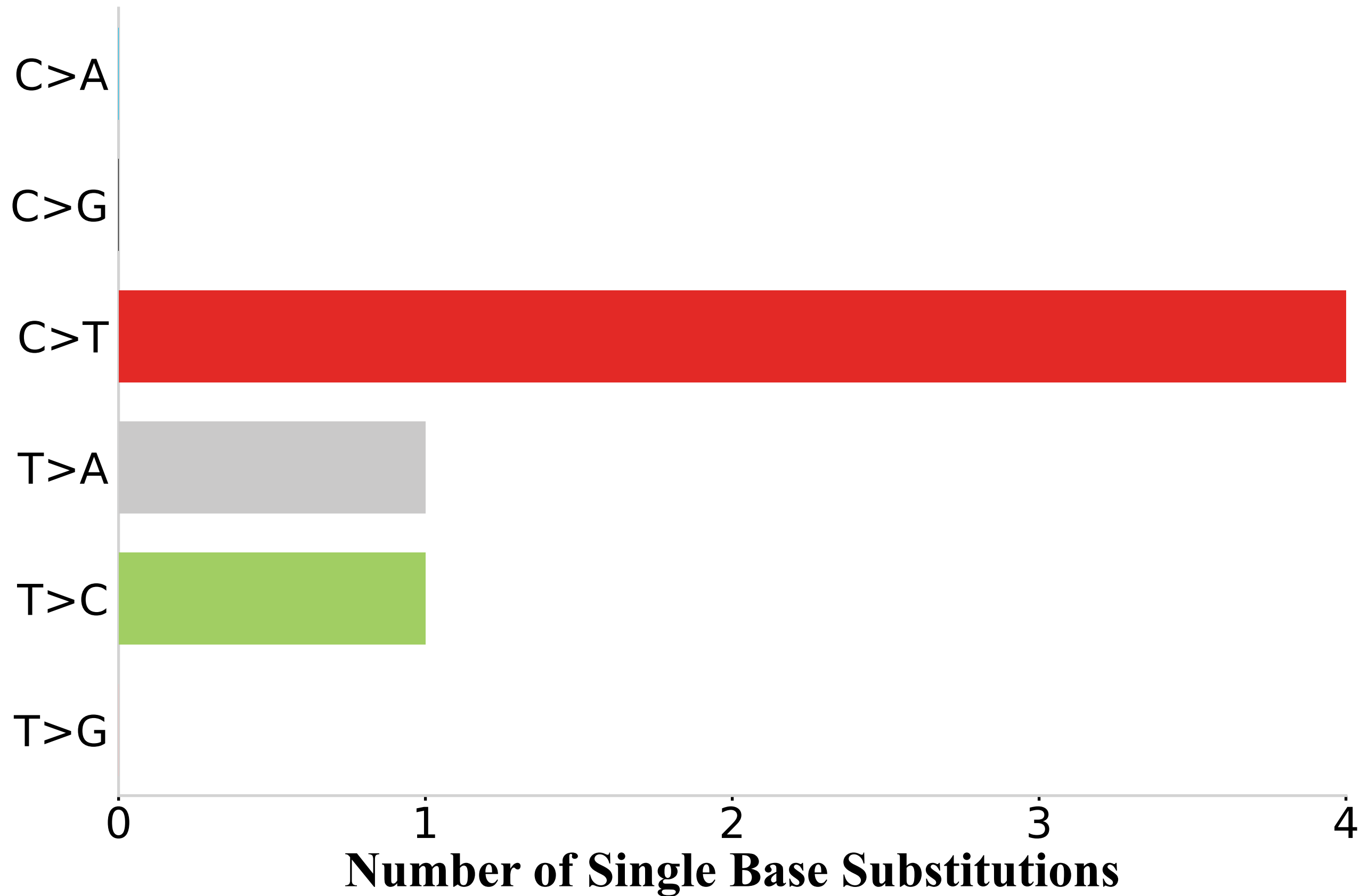
P-0001231-T01-IM3: 2 subs



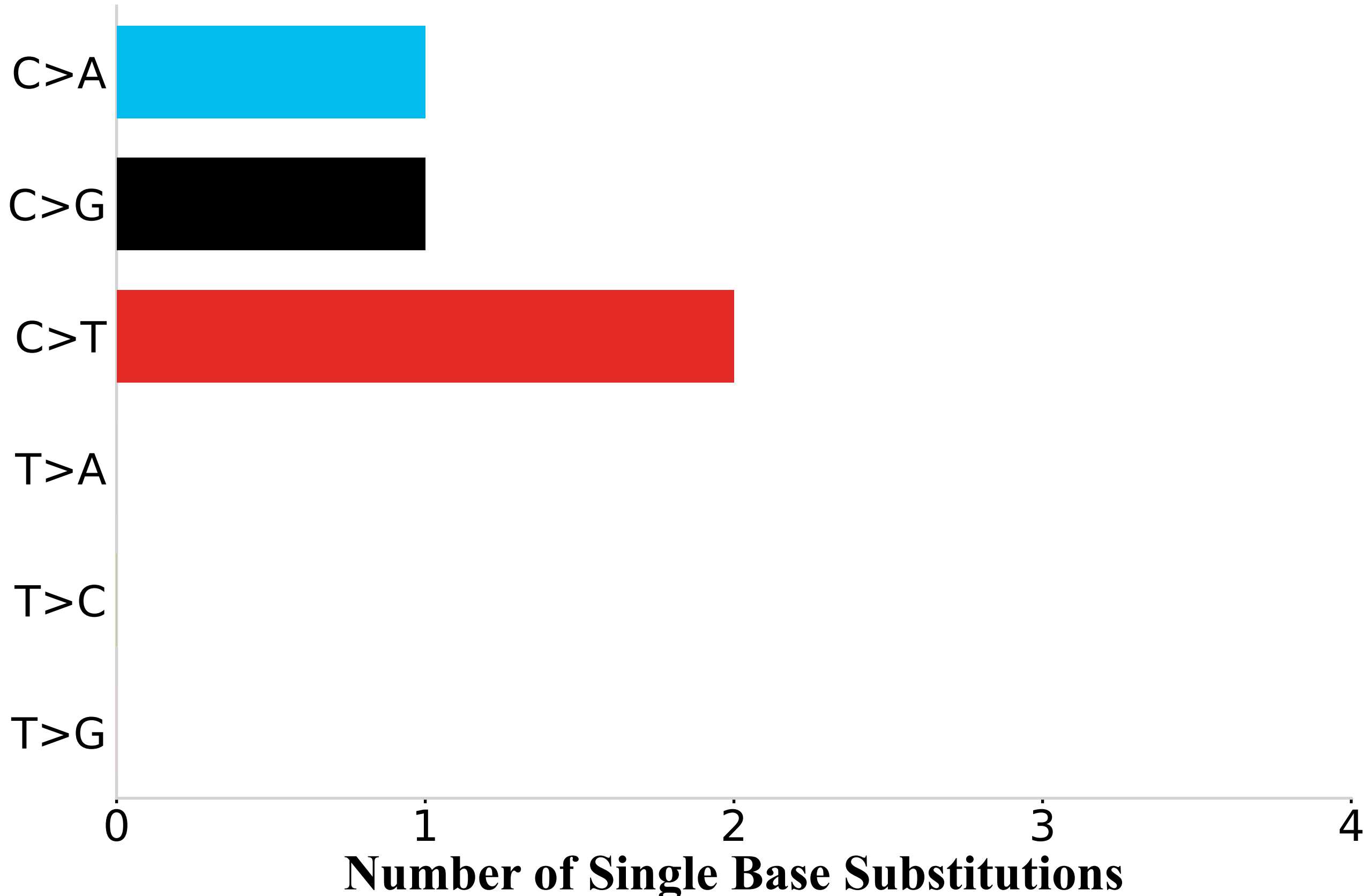
P-0001275-T01-IM3: 1 subs



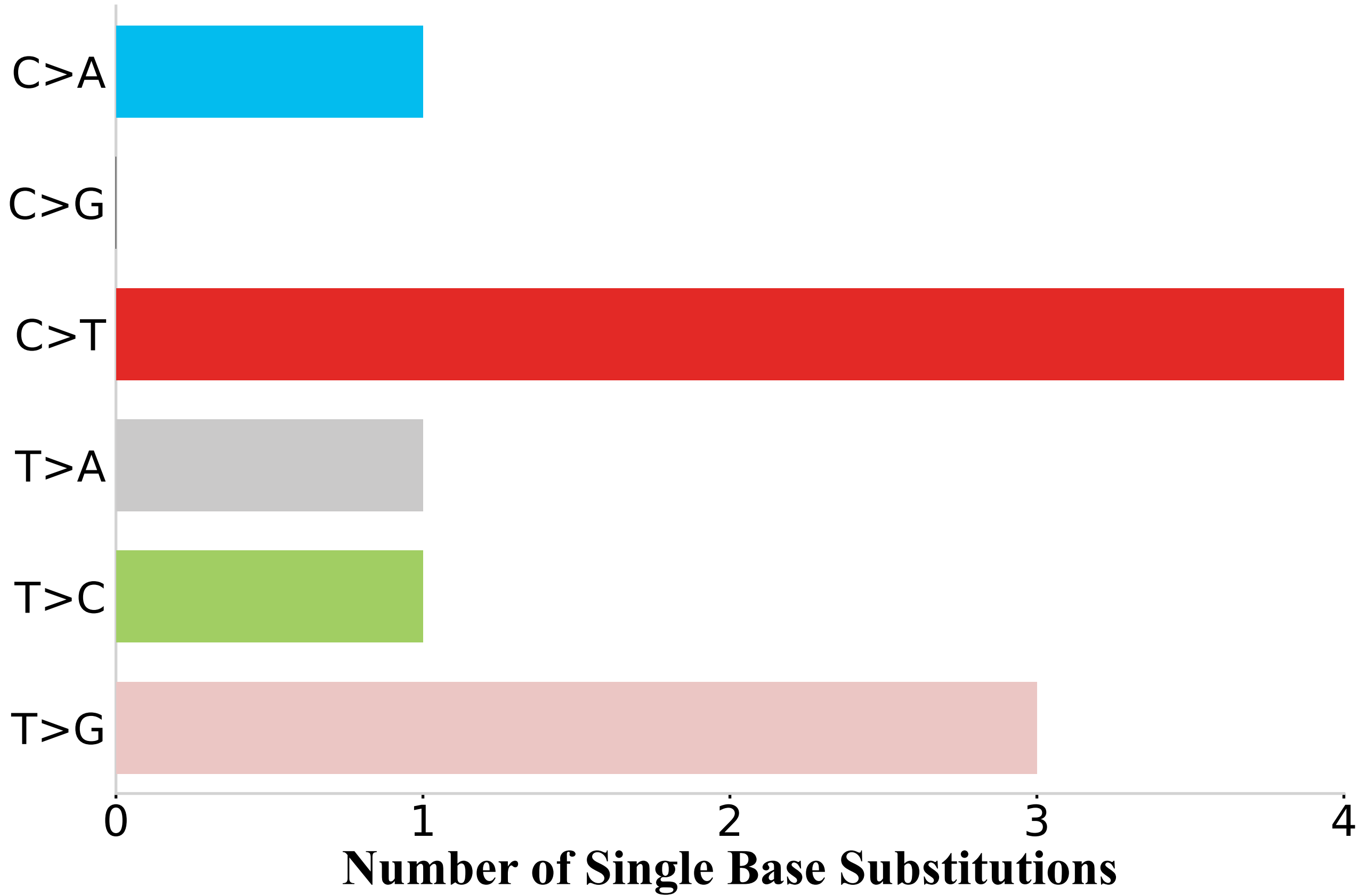
P-0001298-T01-IM3: 6 subs



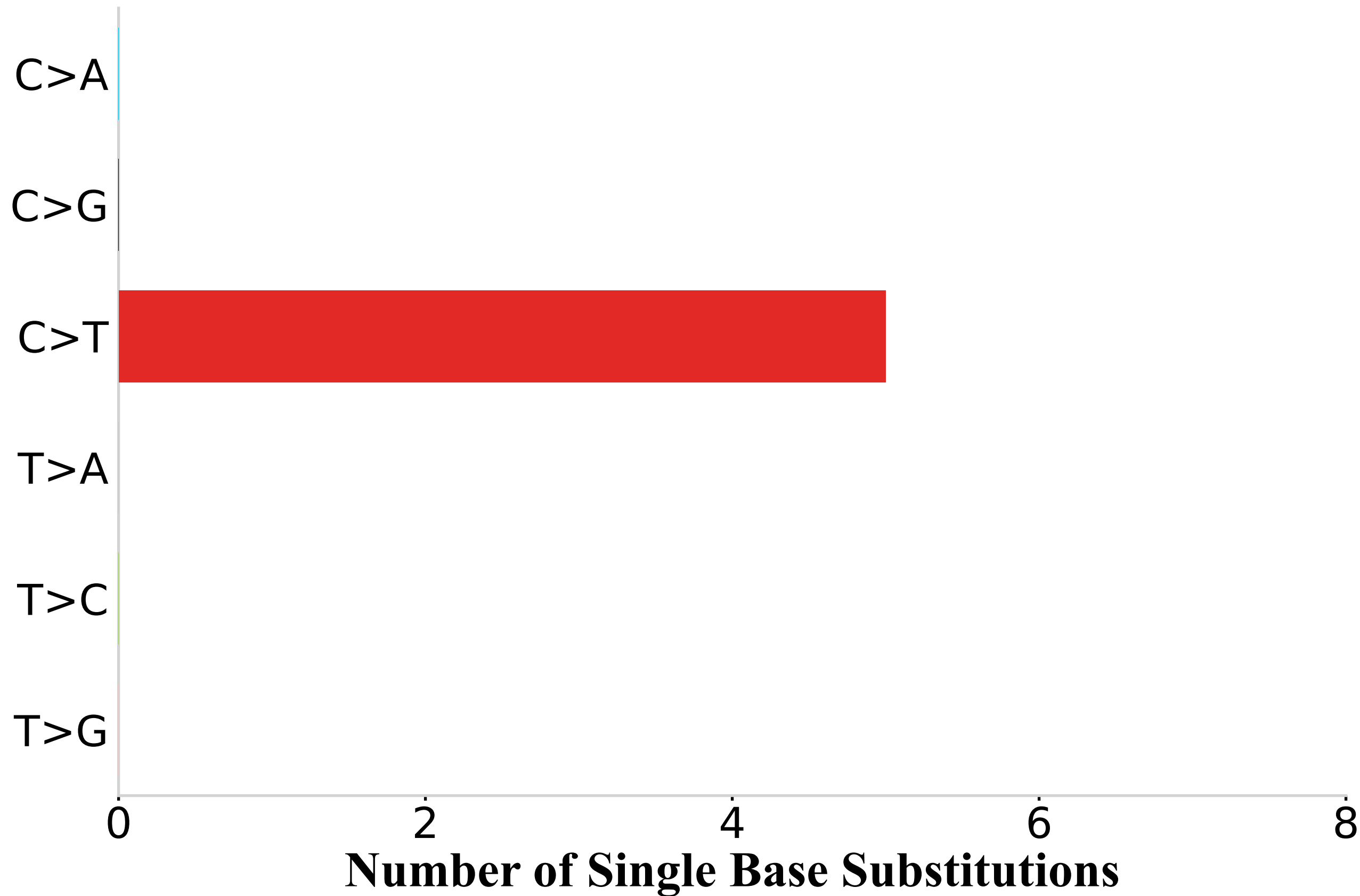
P-0001323-T01-IM3: 4 subs



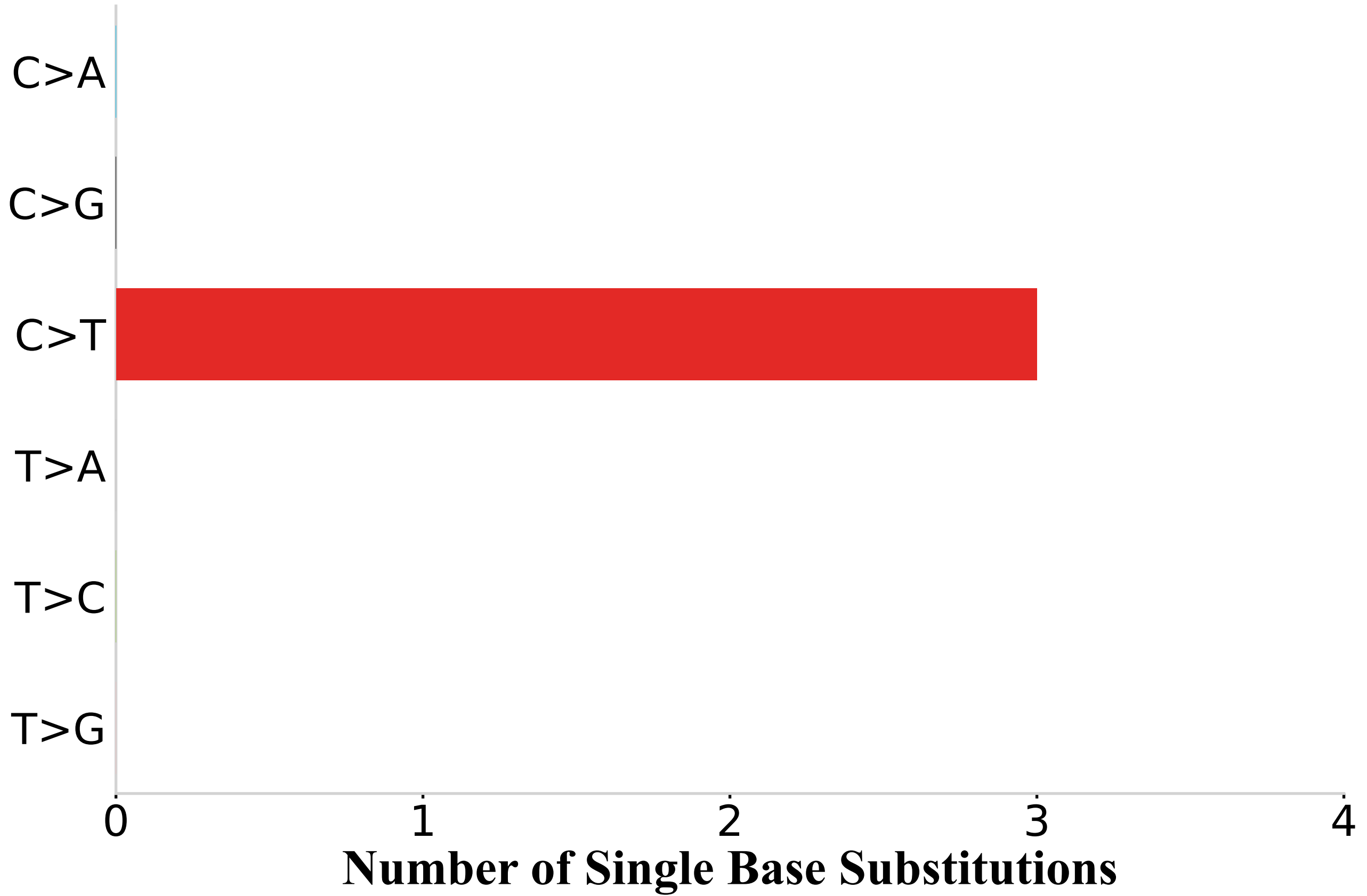
P-0001495-T03-IM5: 10 subs



P-0001510-T01-IM3: 5 subs



P-0001543-T01-IM3: 3 subs



P-0001586-T02-IM5: 4 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

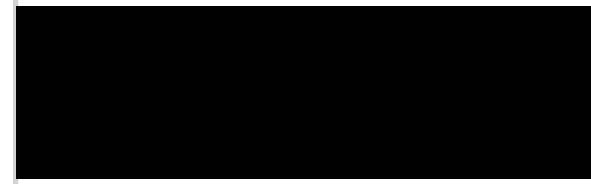
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2

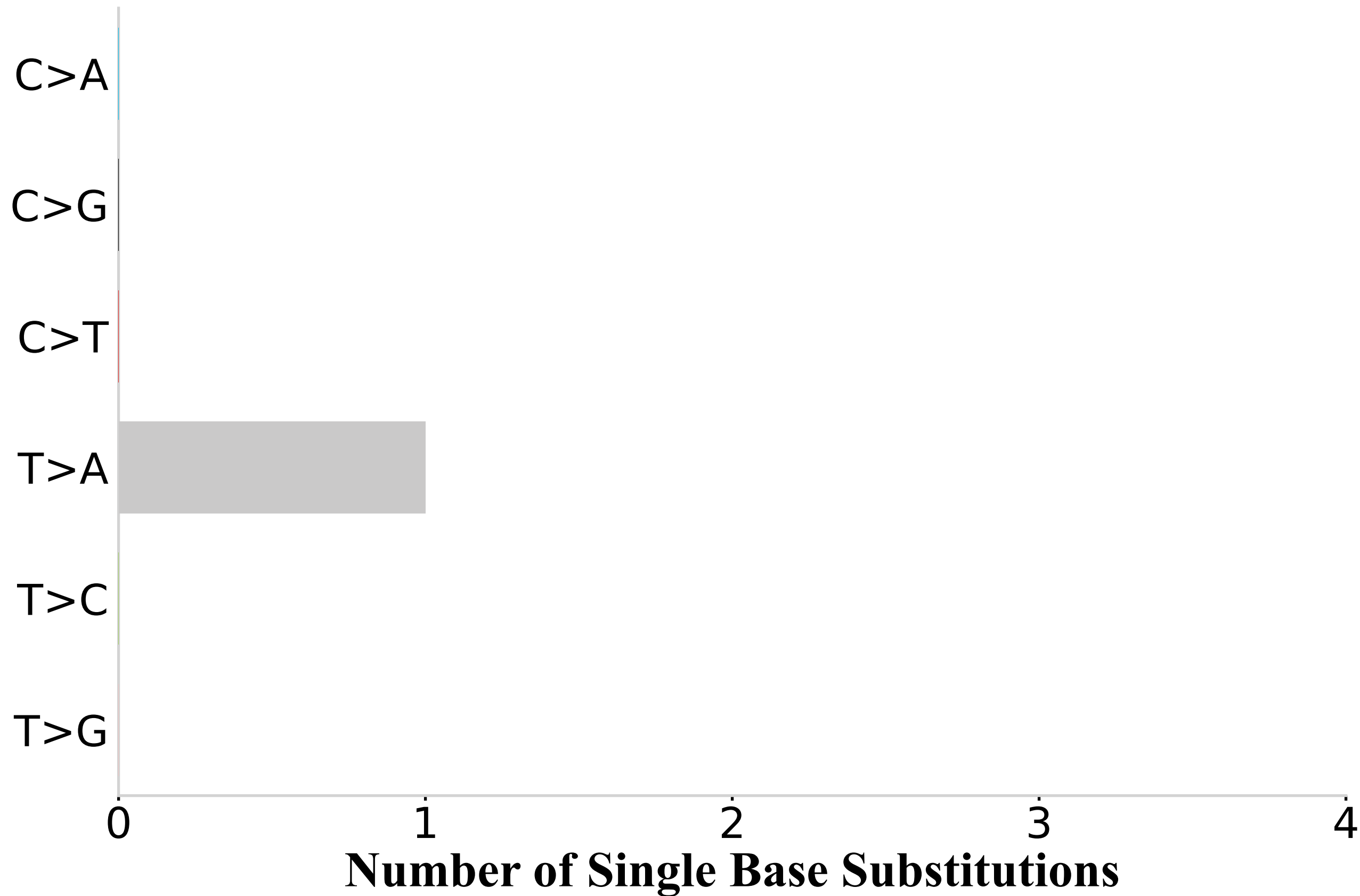
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4

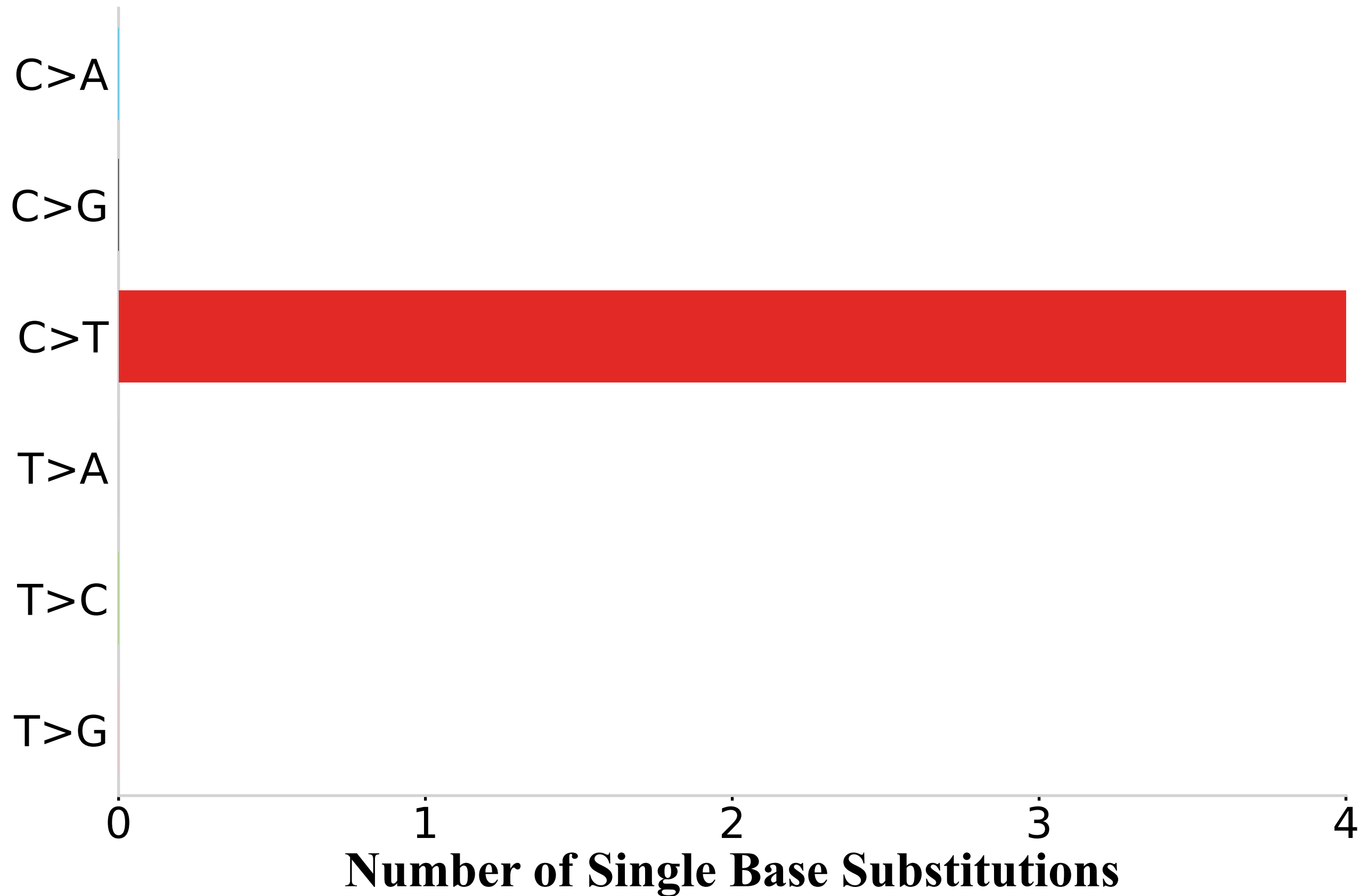
Number of Single Base Substitutions



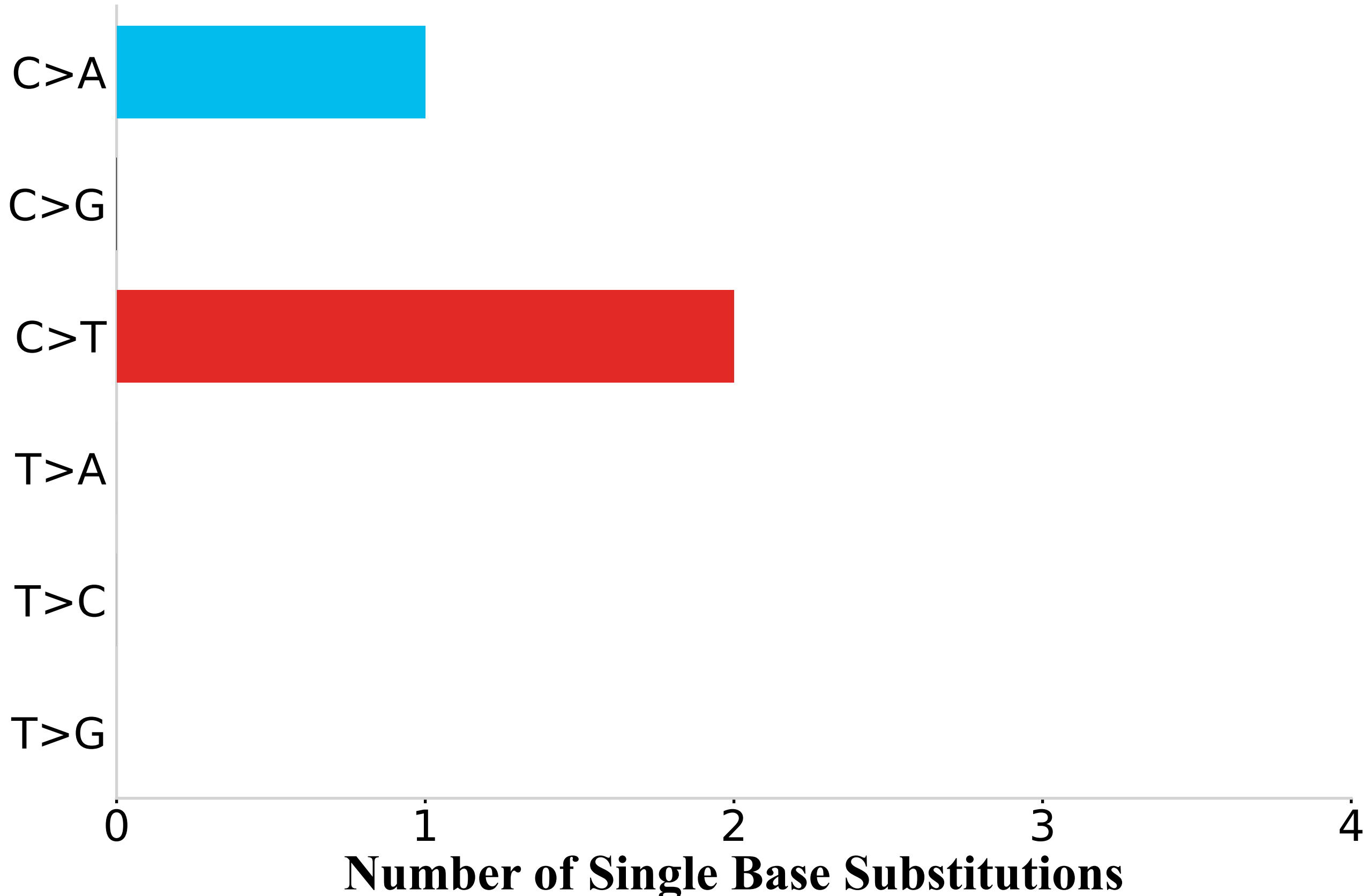
P-0001667-T01-IM3: 1 subs



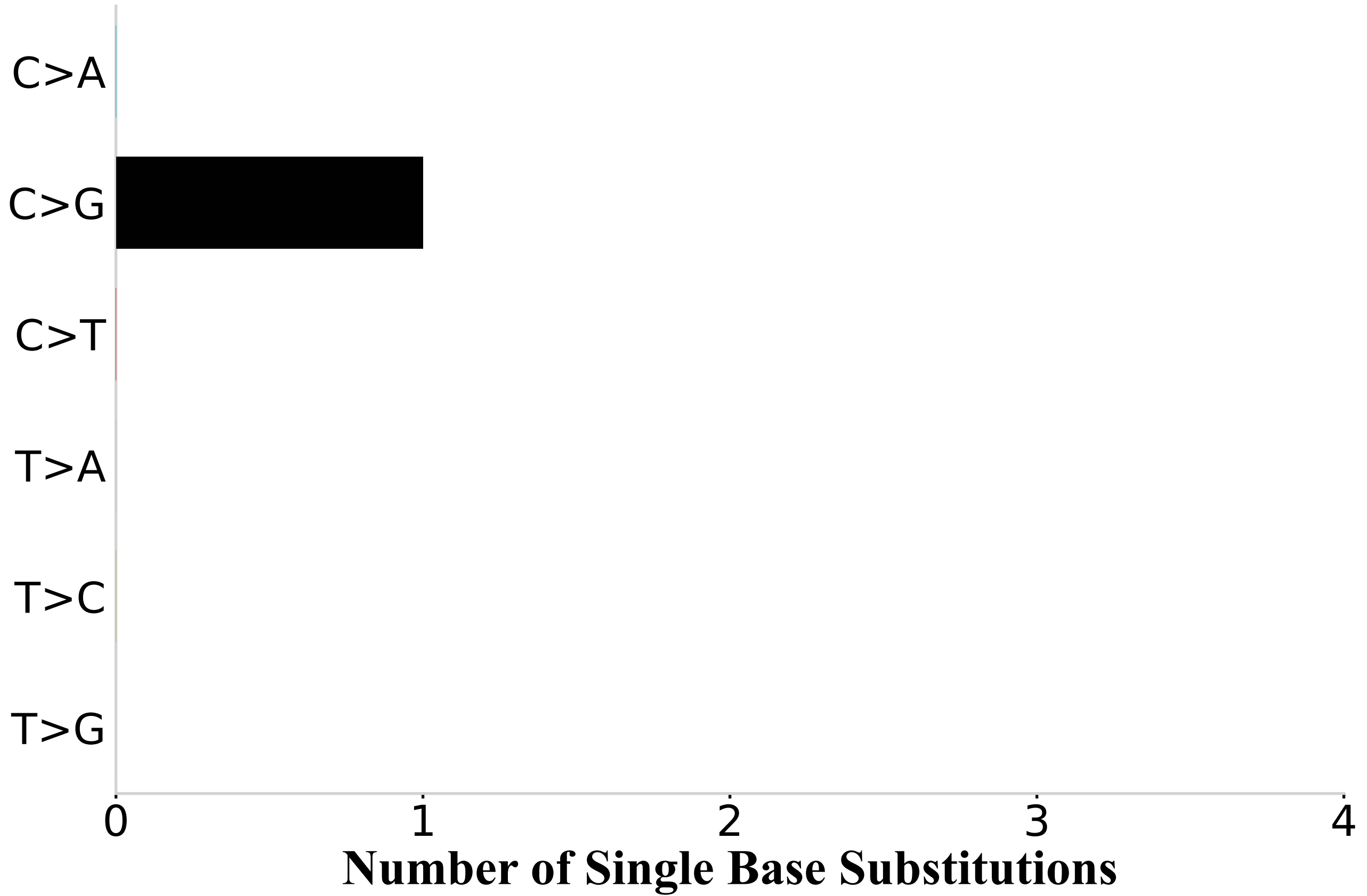
P-0001733-T01-IM3: 4 subs



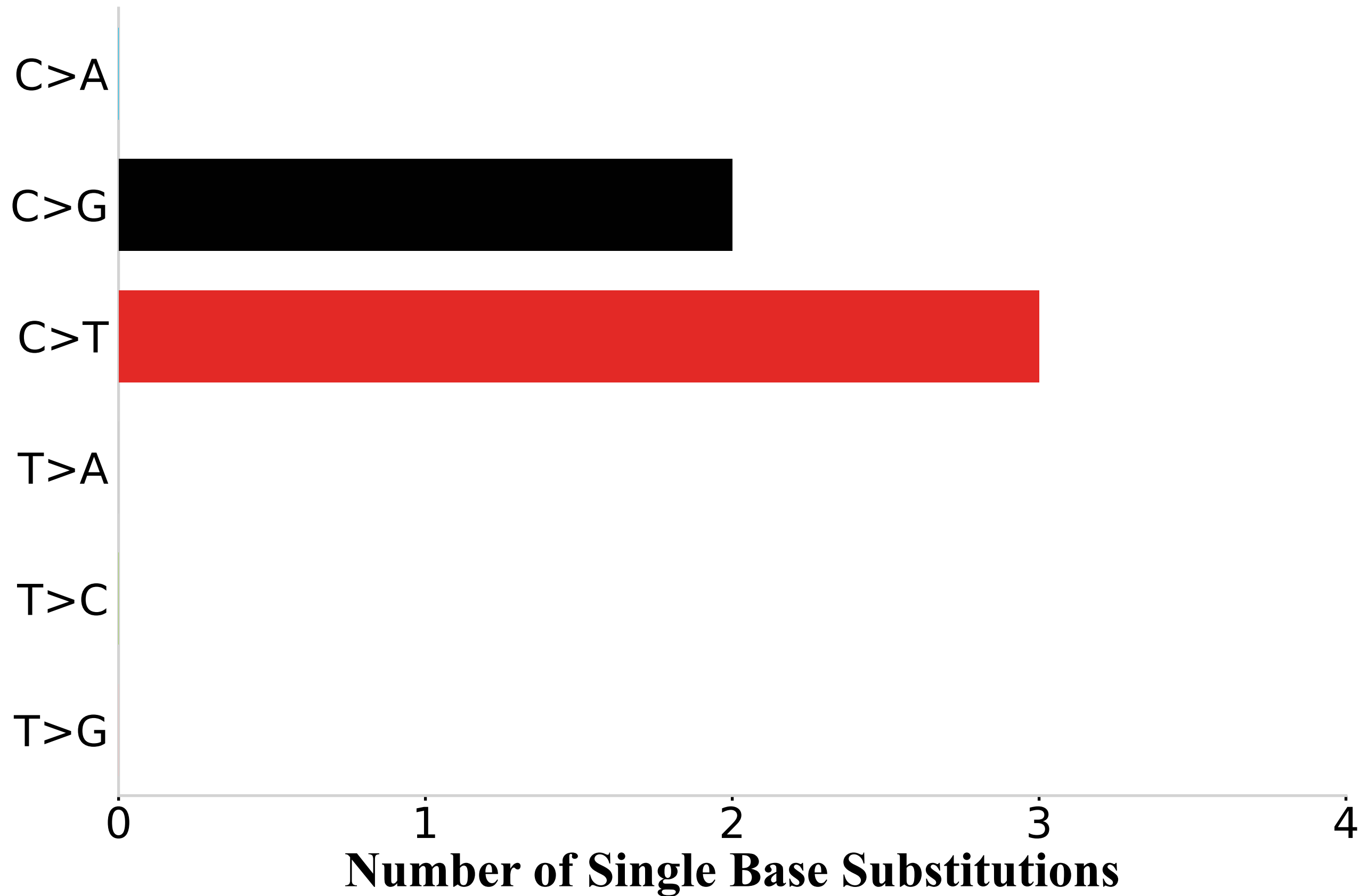
P-0001855-T01-IM3: 3 subs



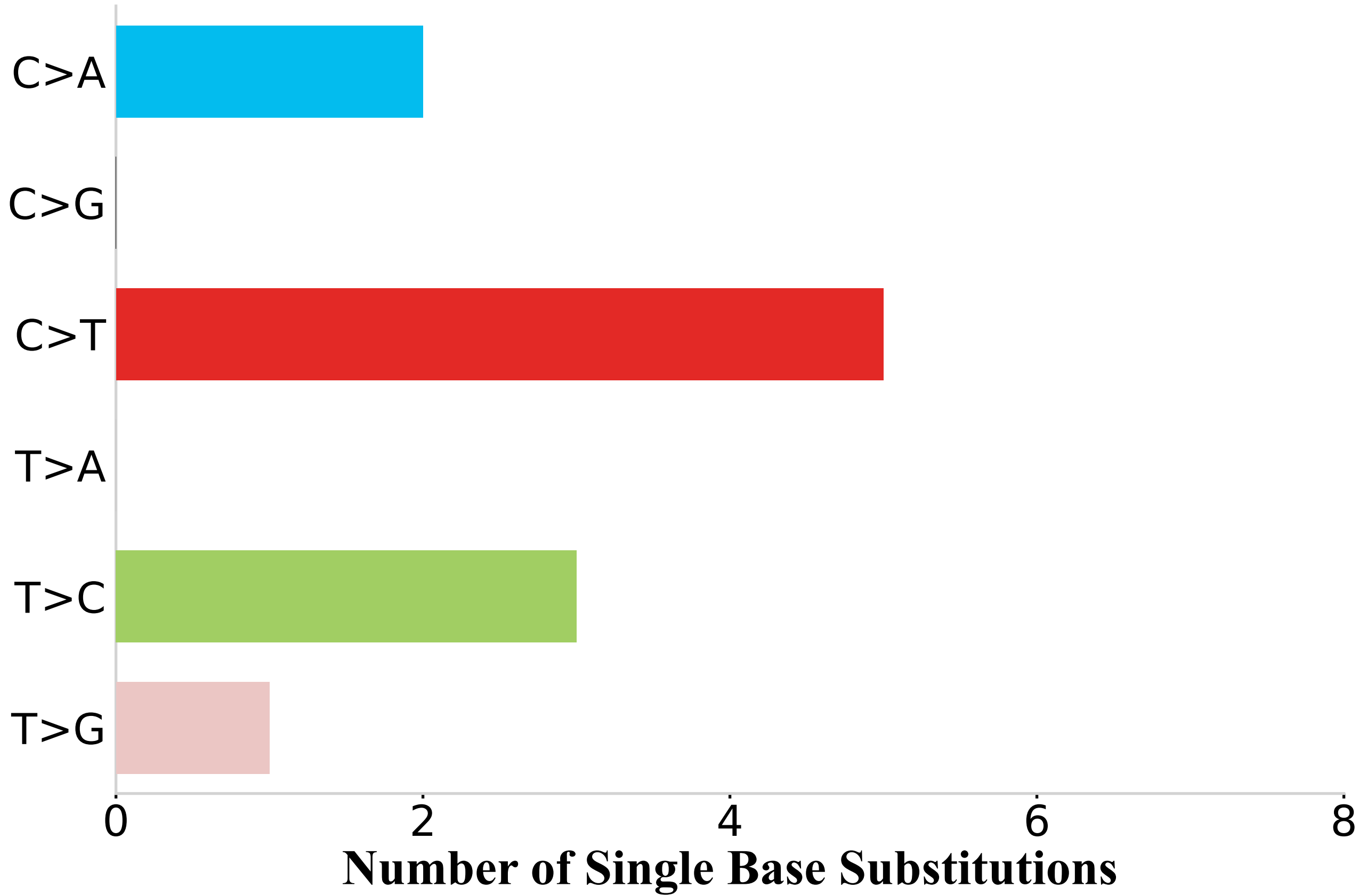
P-0001996-T01-IM3: 1 subs



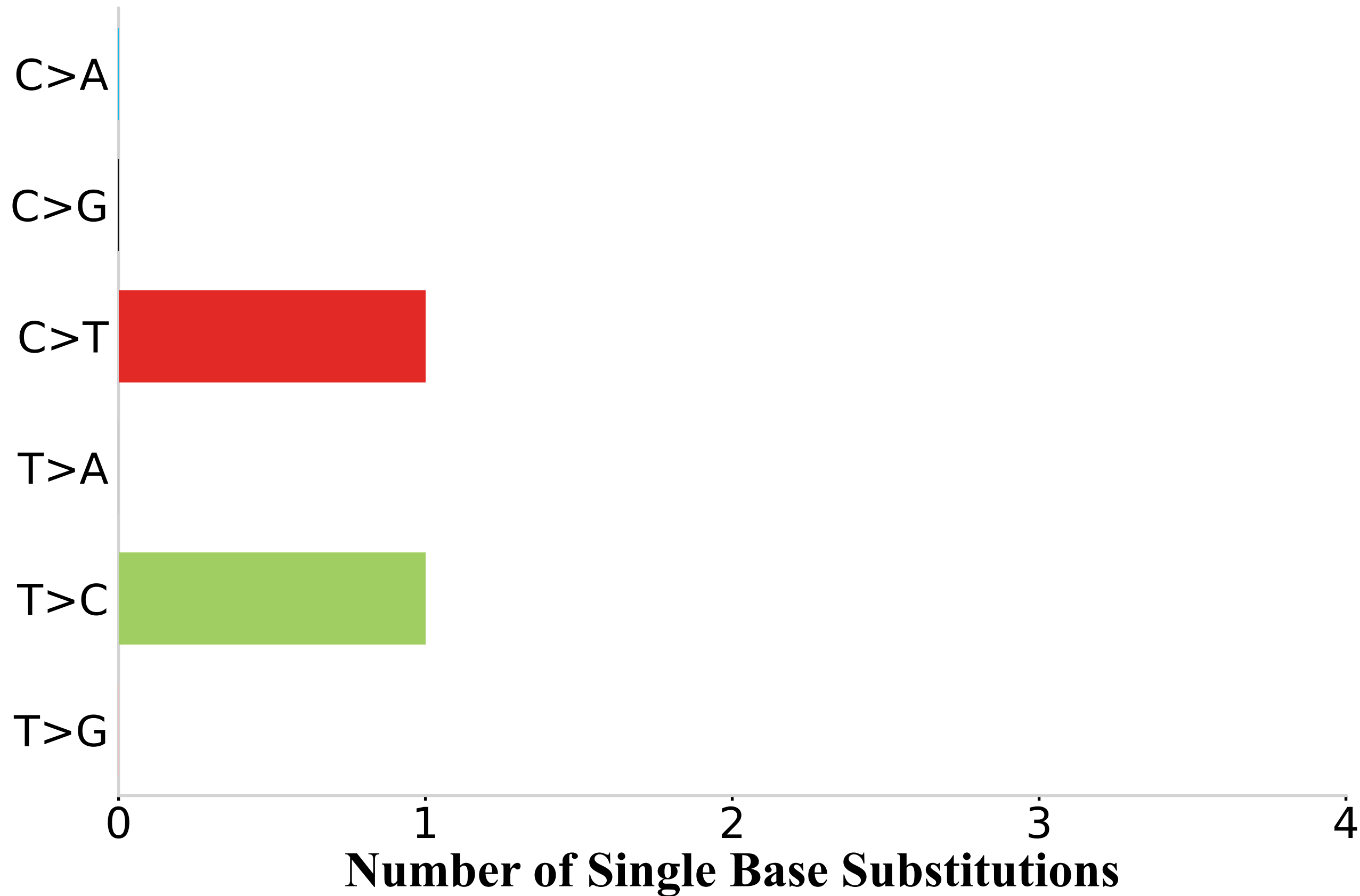
P-0002044-T01-IM3: 5 subs



P-0002192-T01-IM3: 11 subs



P-0002208-T01-IM3: 2 subs



P-0002454-T01-IM3: 4 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

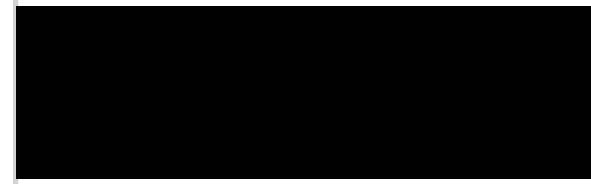
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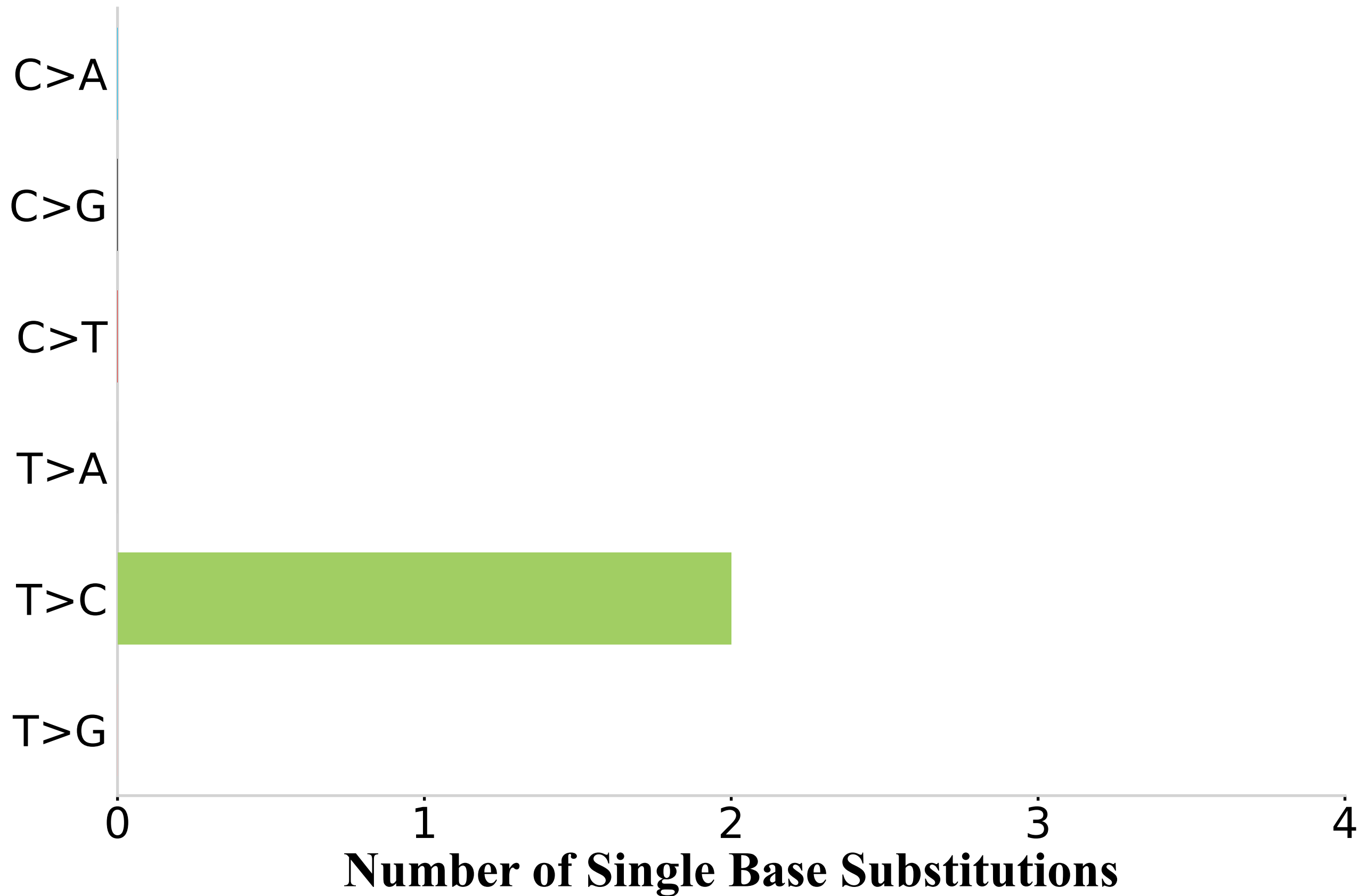
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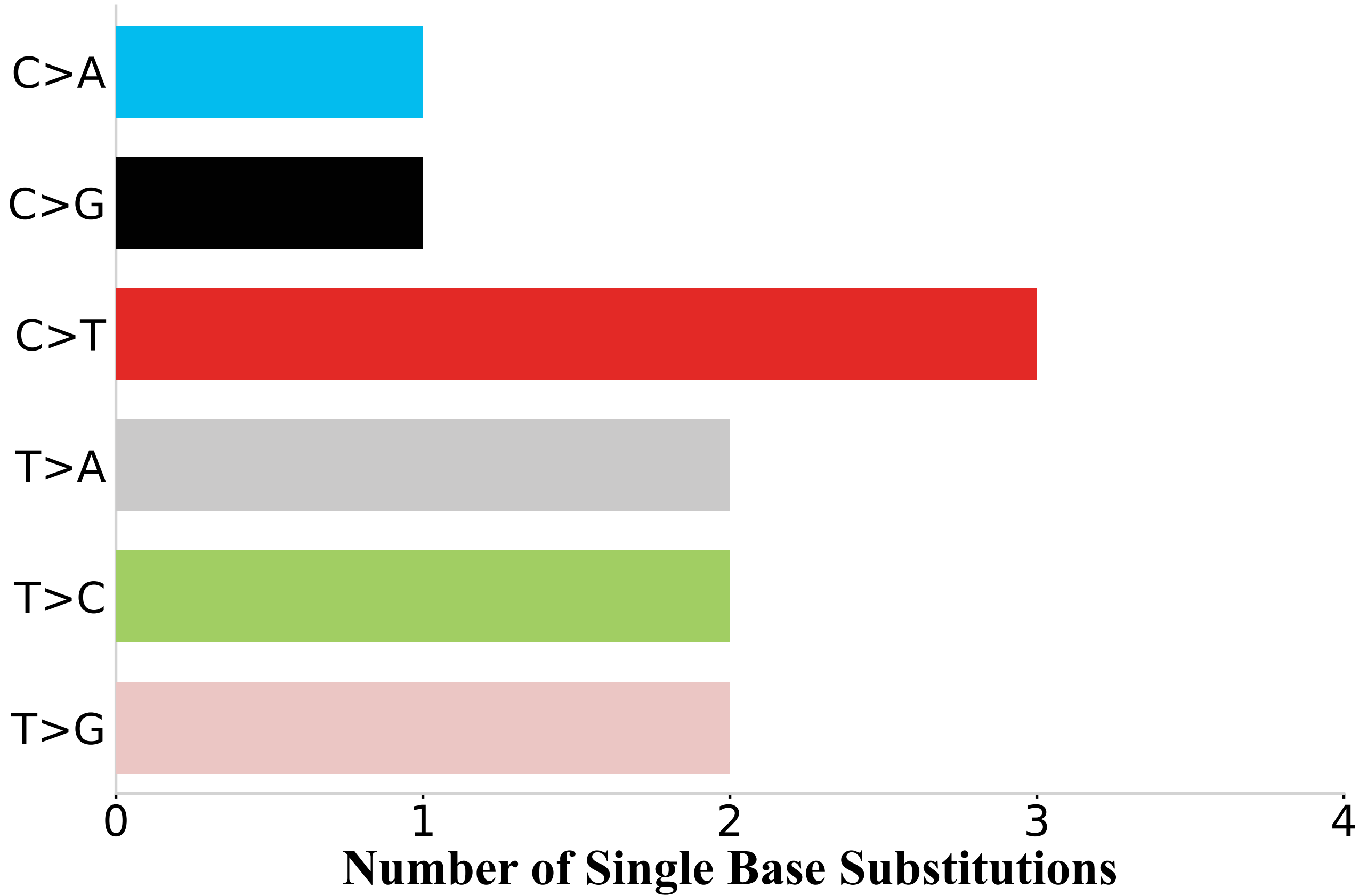
Number of Single Base Substitutions



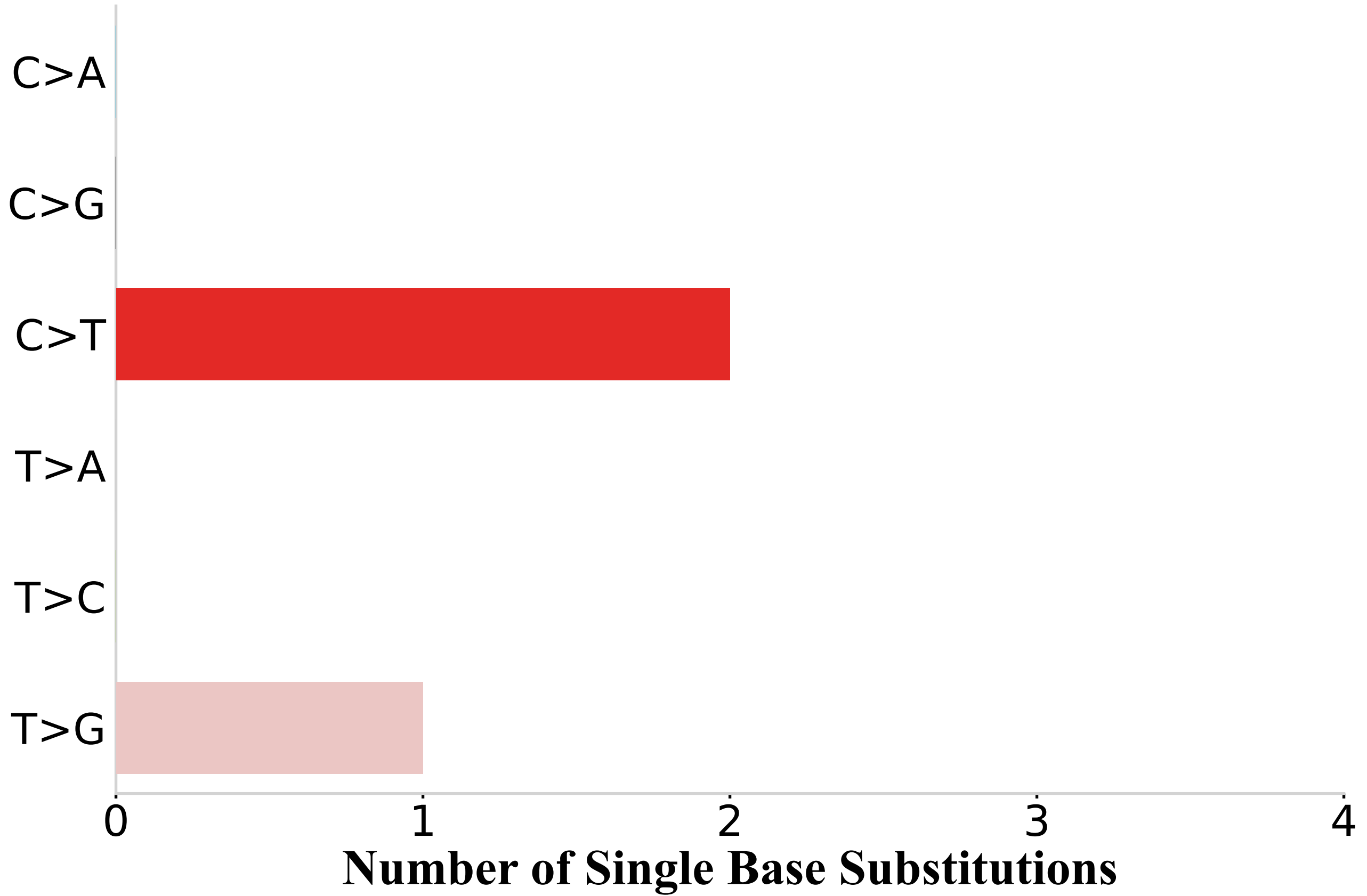
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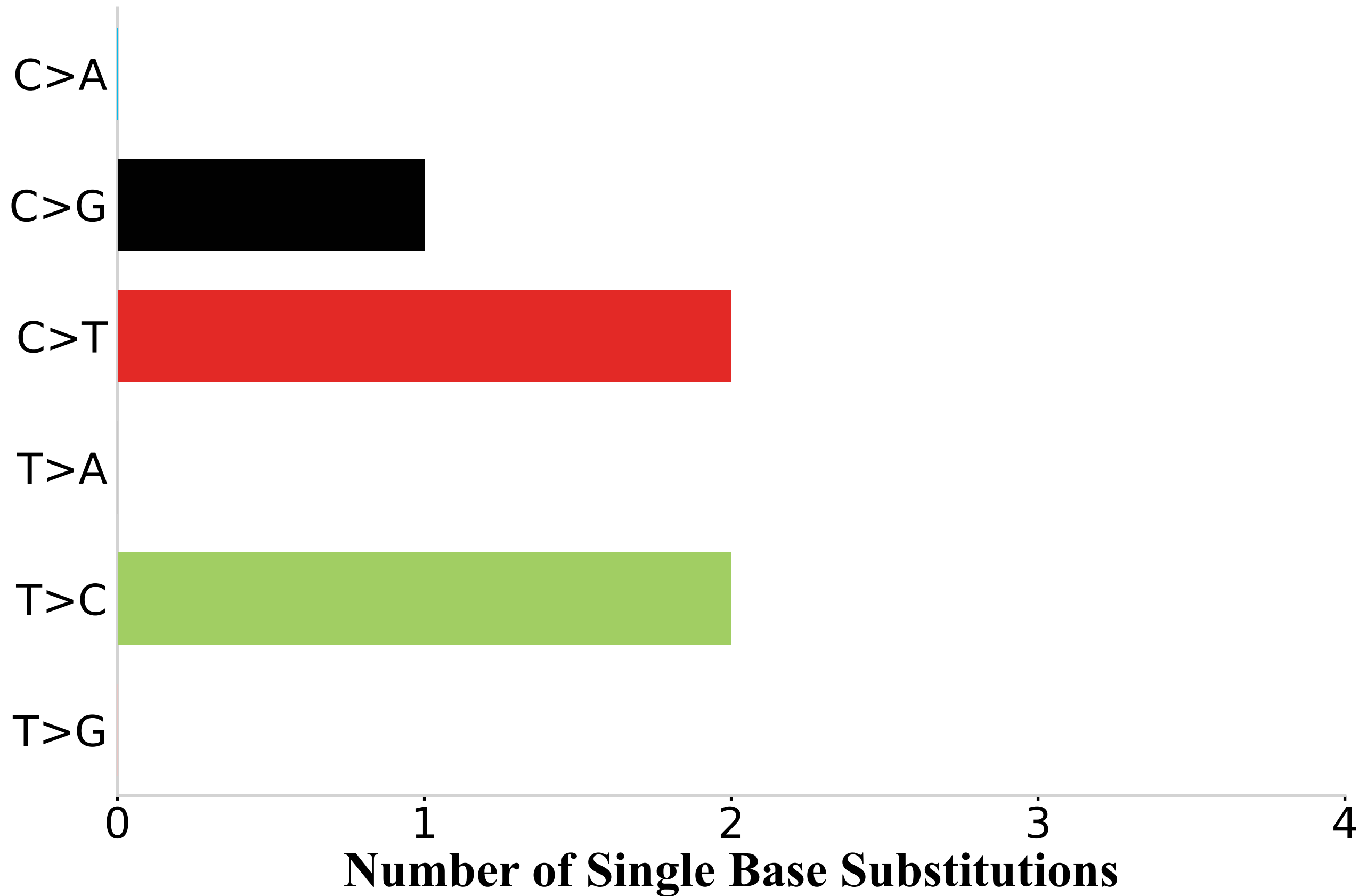
P-0002465-T01-IM3: 11 subs



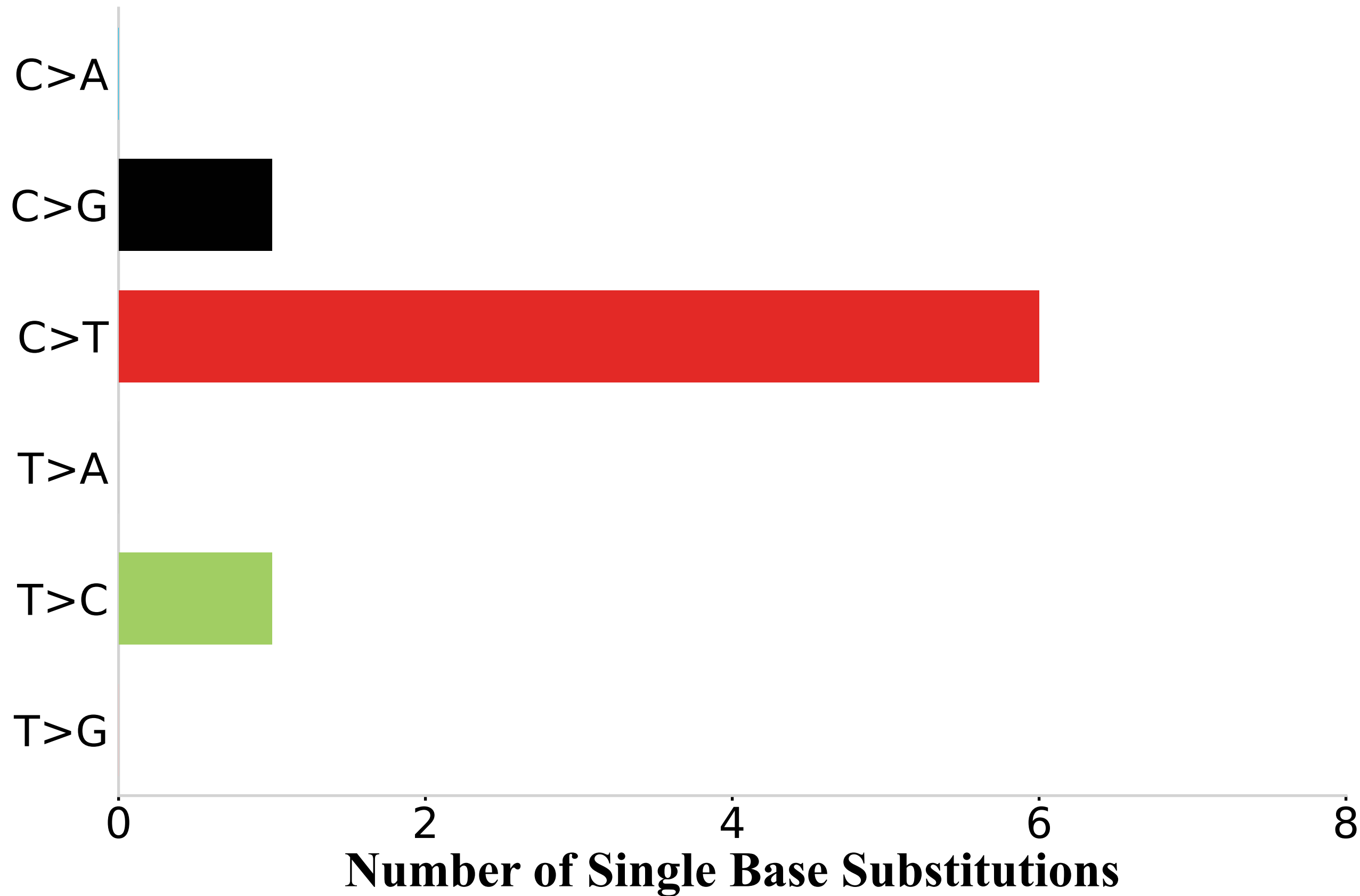
P-0002712-T01-IM3: 3 subs



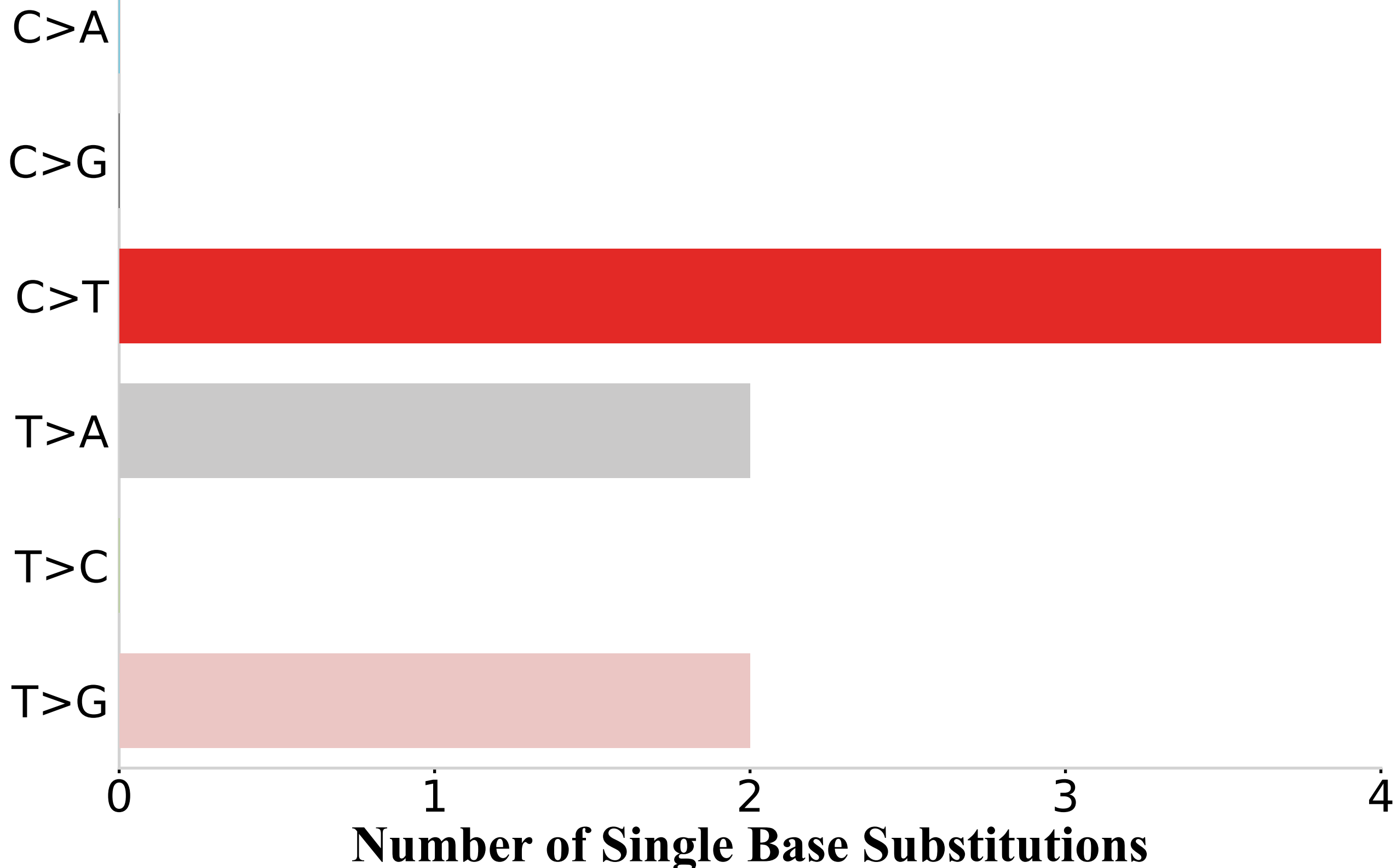
P-0002737-T02-IM5: 5 subs



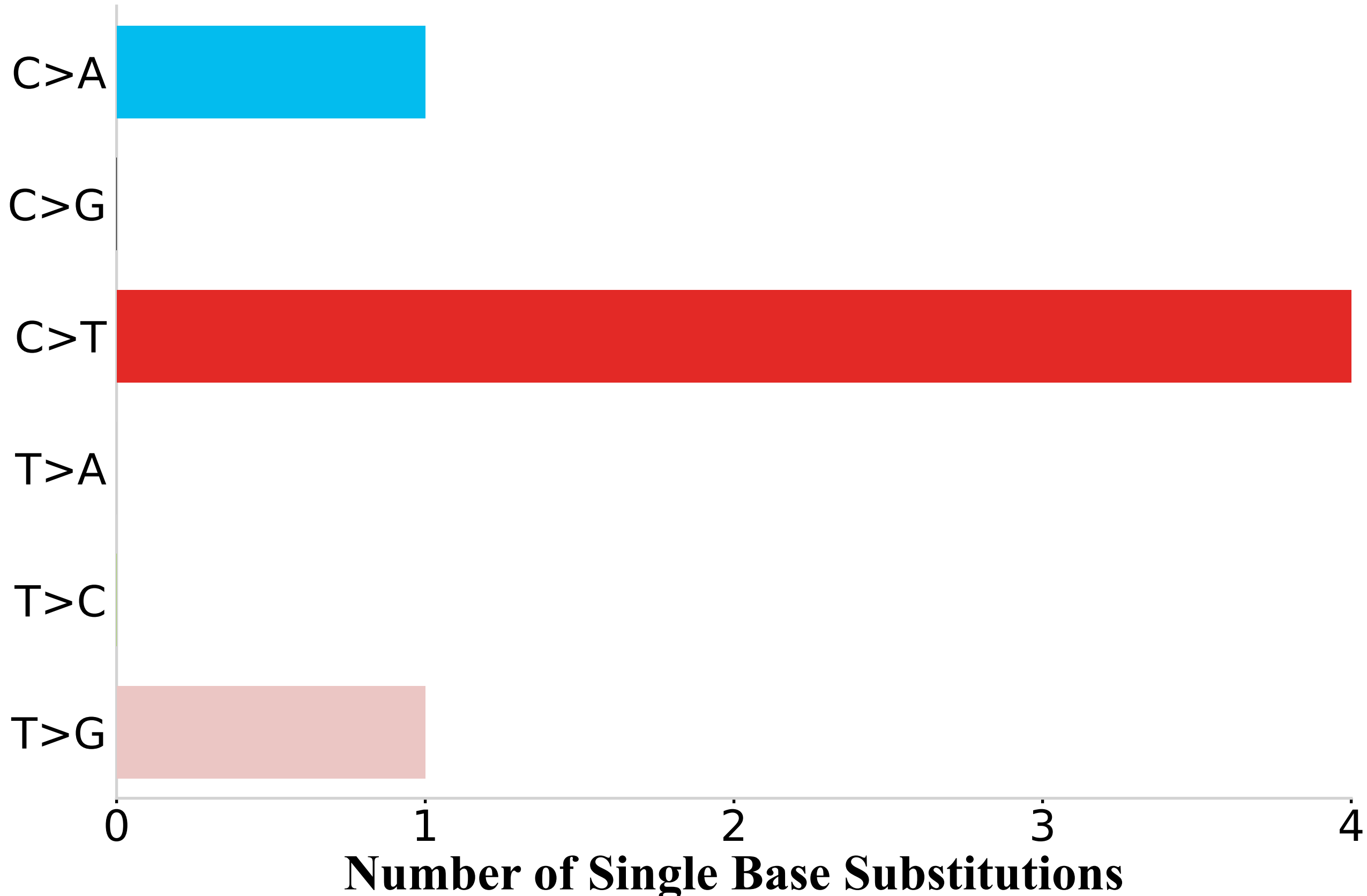
P-0002801-T01-IM3: 8 subs



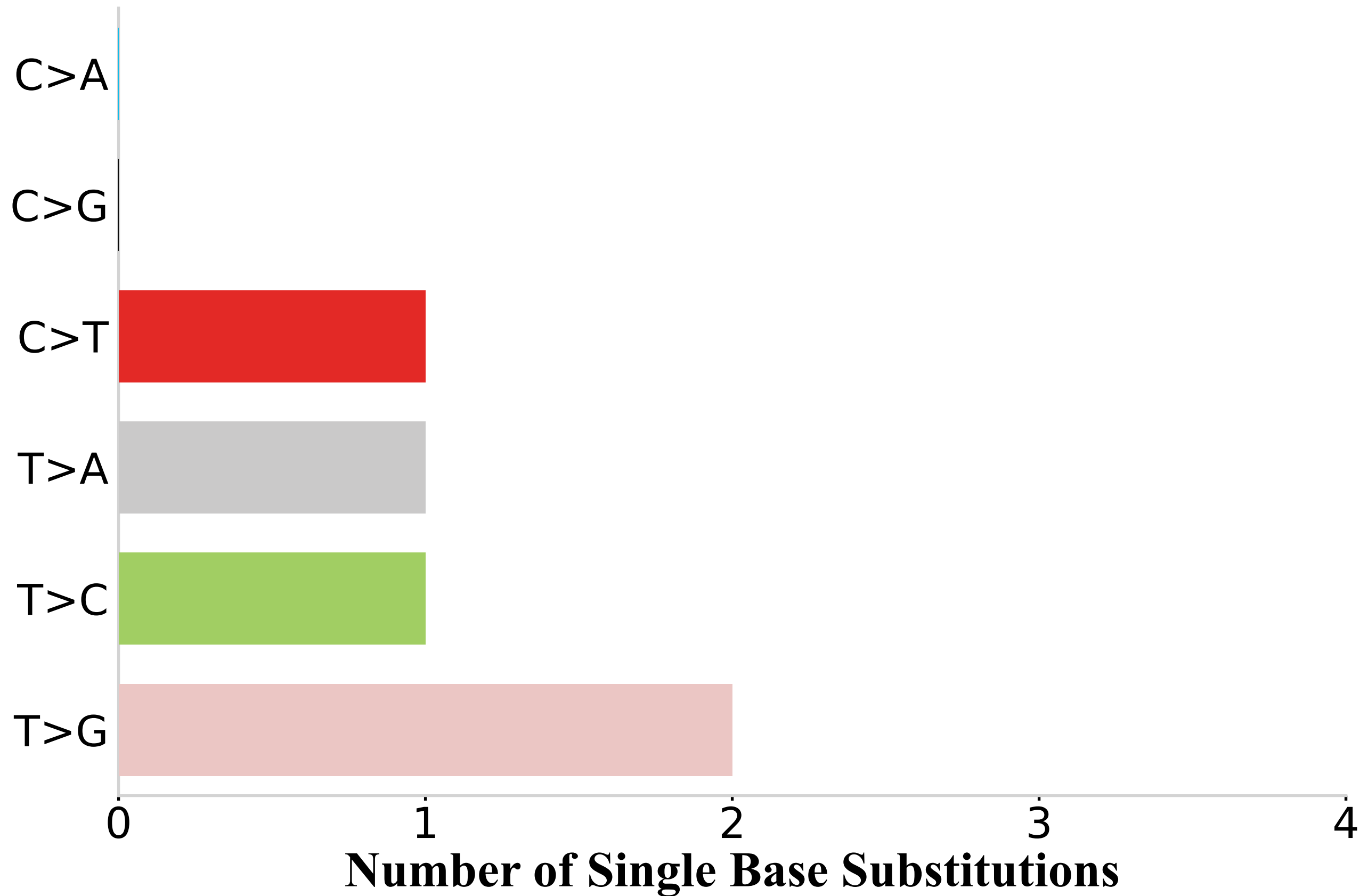
P-0002883-T02-IM5: 8 subs



P-0003048-T01-IM5: 6 subs



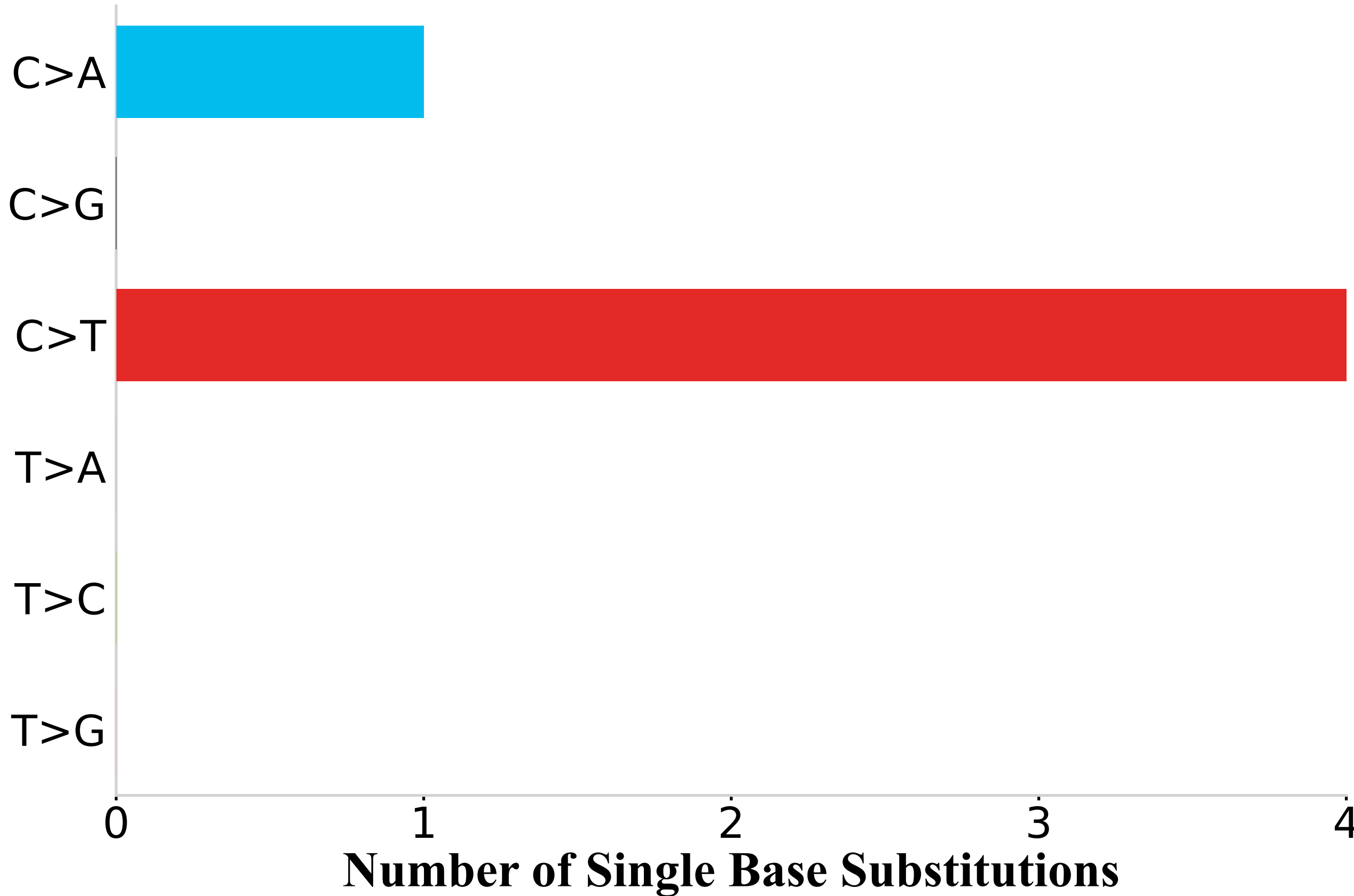
P-0003078-T01-IM5: 5 subs



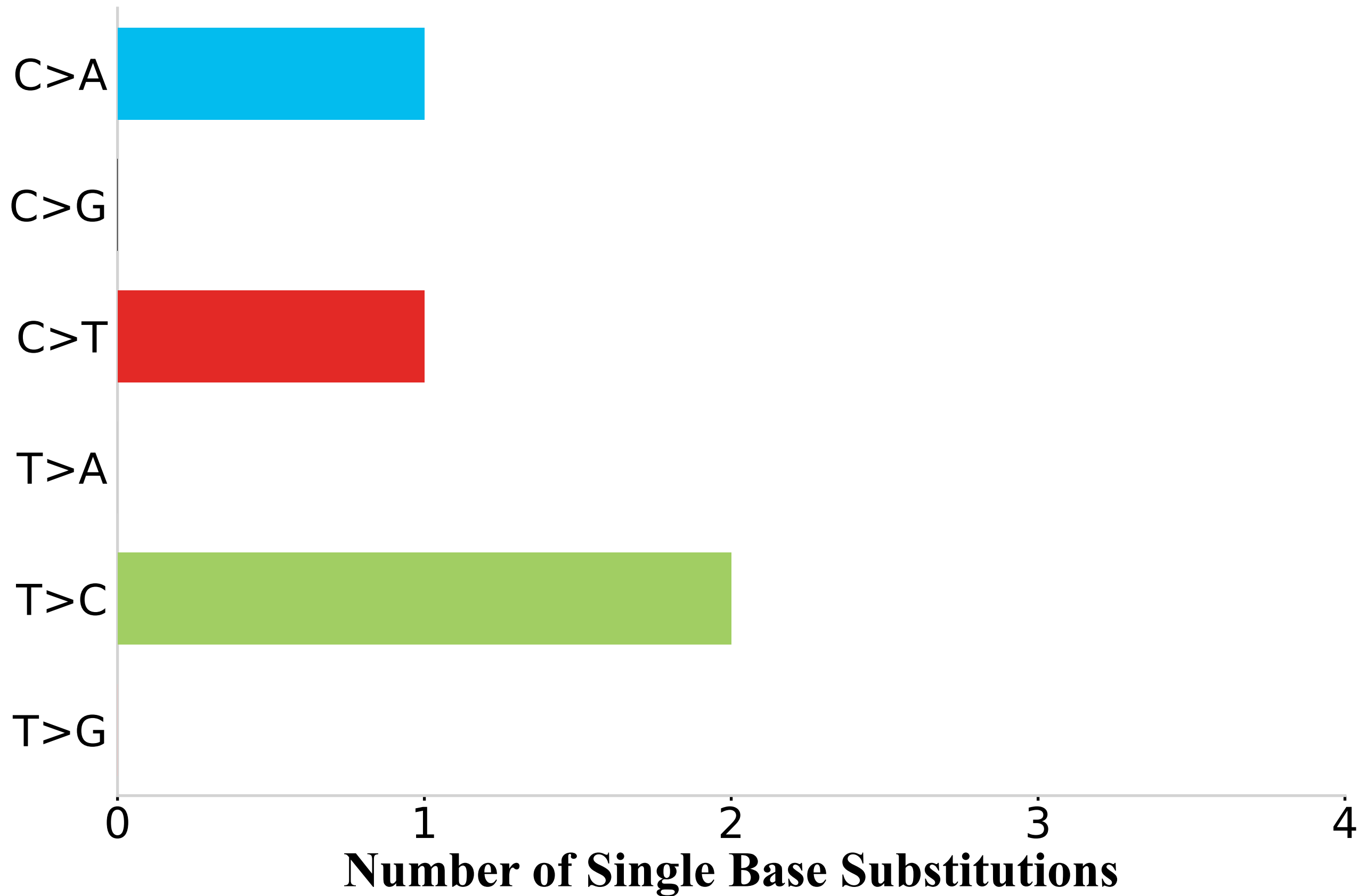
P-0003248-T01-IM5: 1 subs



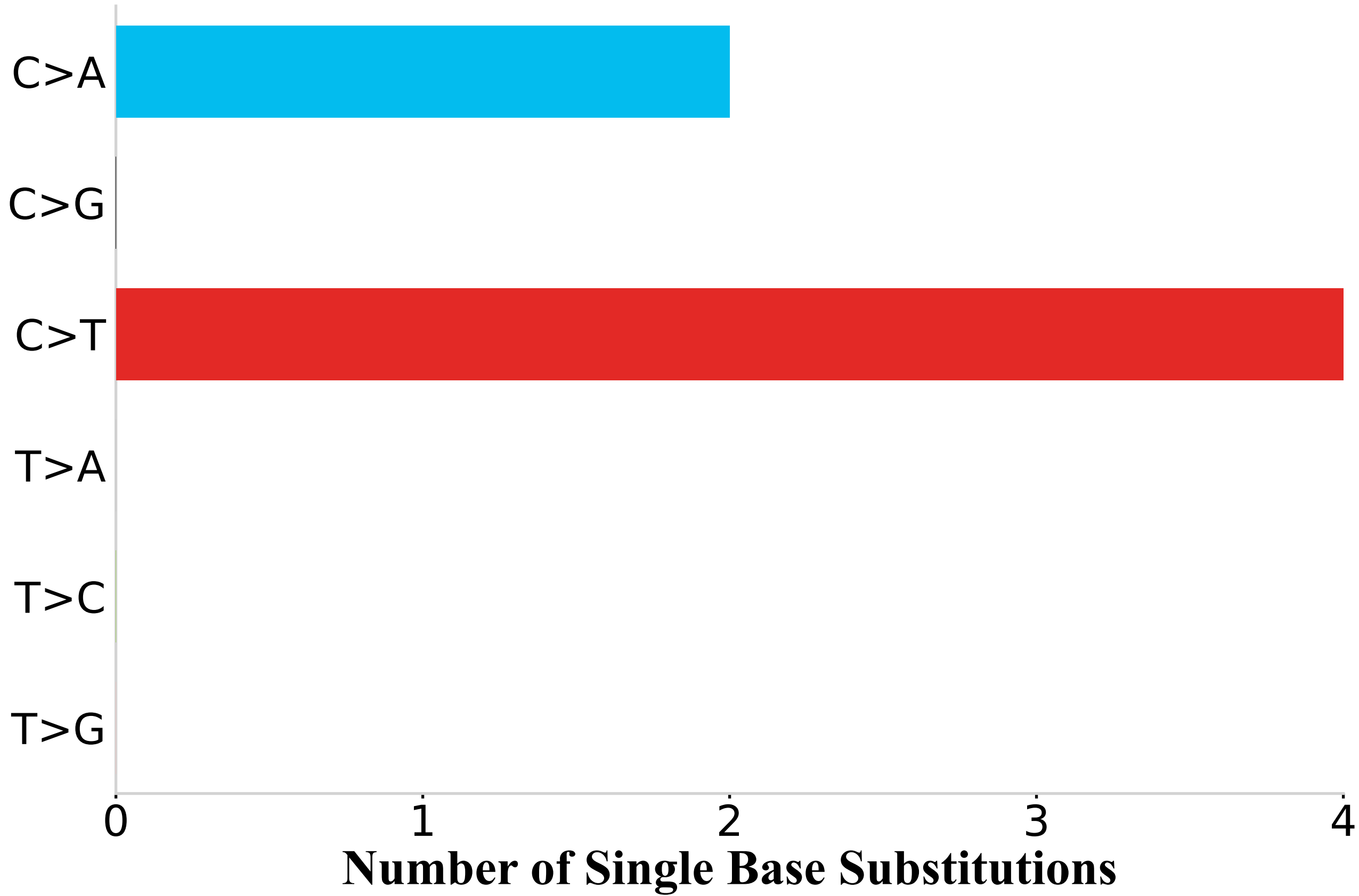
P-0003432-T01-IM5: 5 subs



P-0003477-T01-IM5: 4 subs



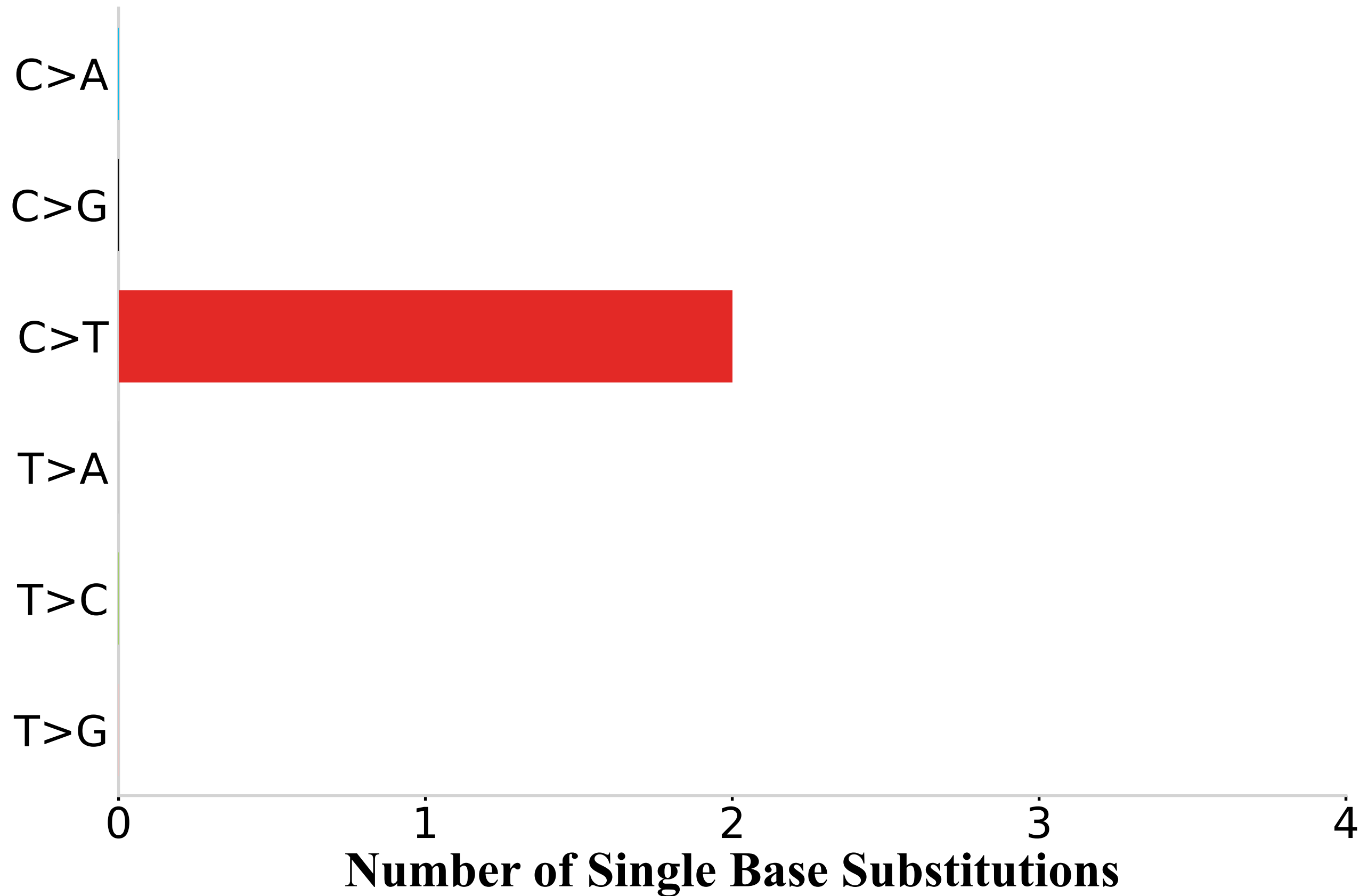
P-0003536-T02-IM5: 6 subs



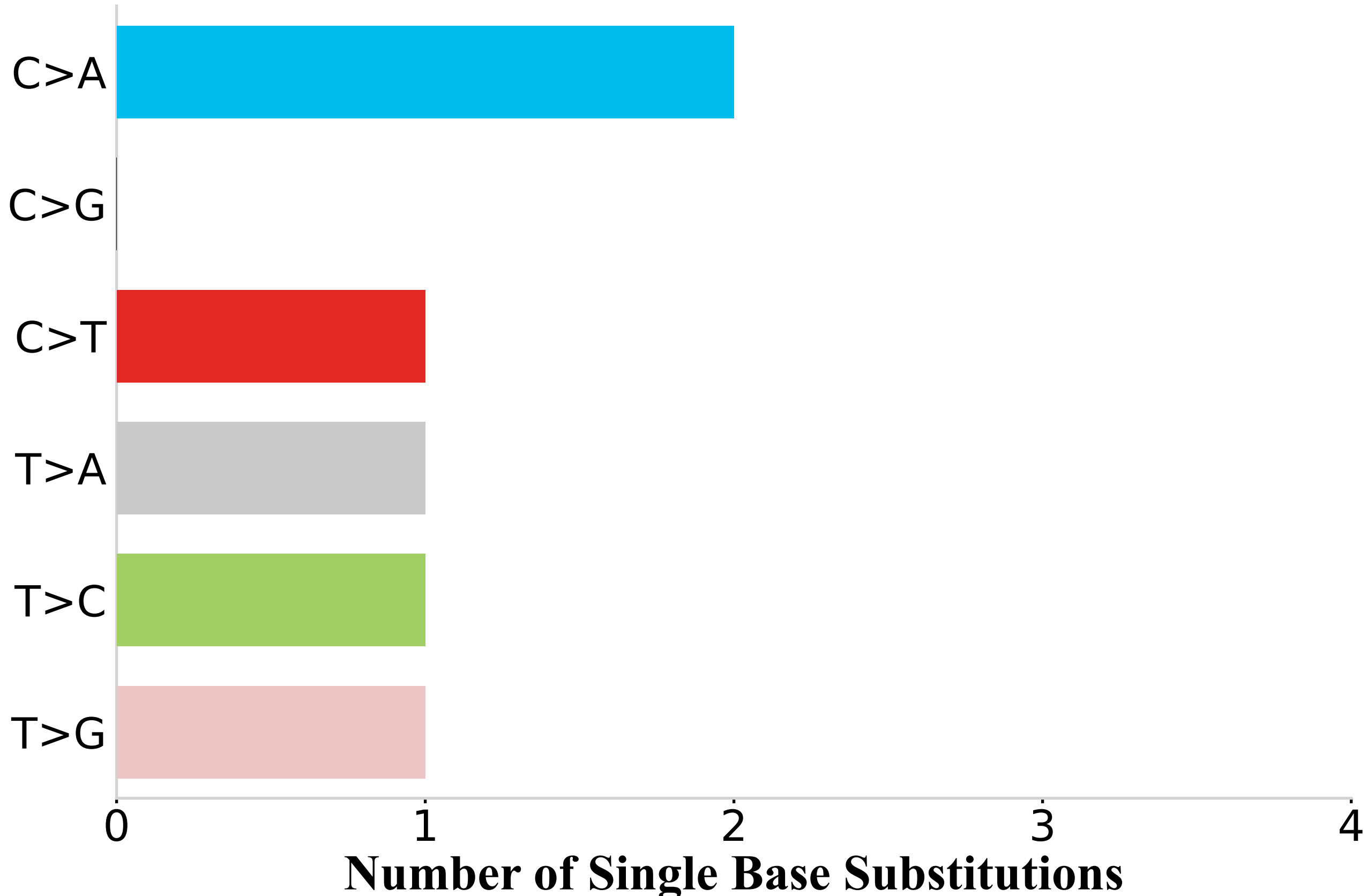
P-0003547-T01-IM5: 1 subs



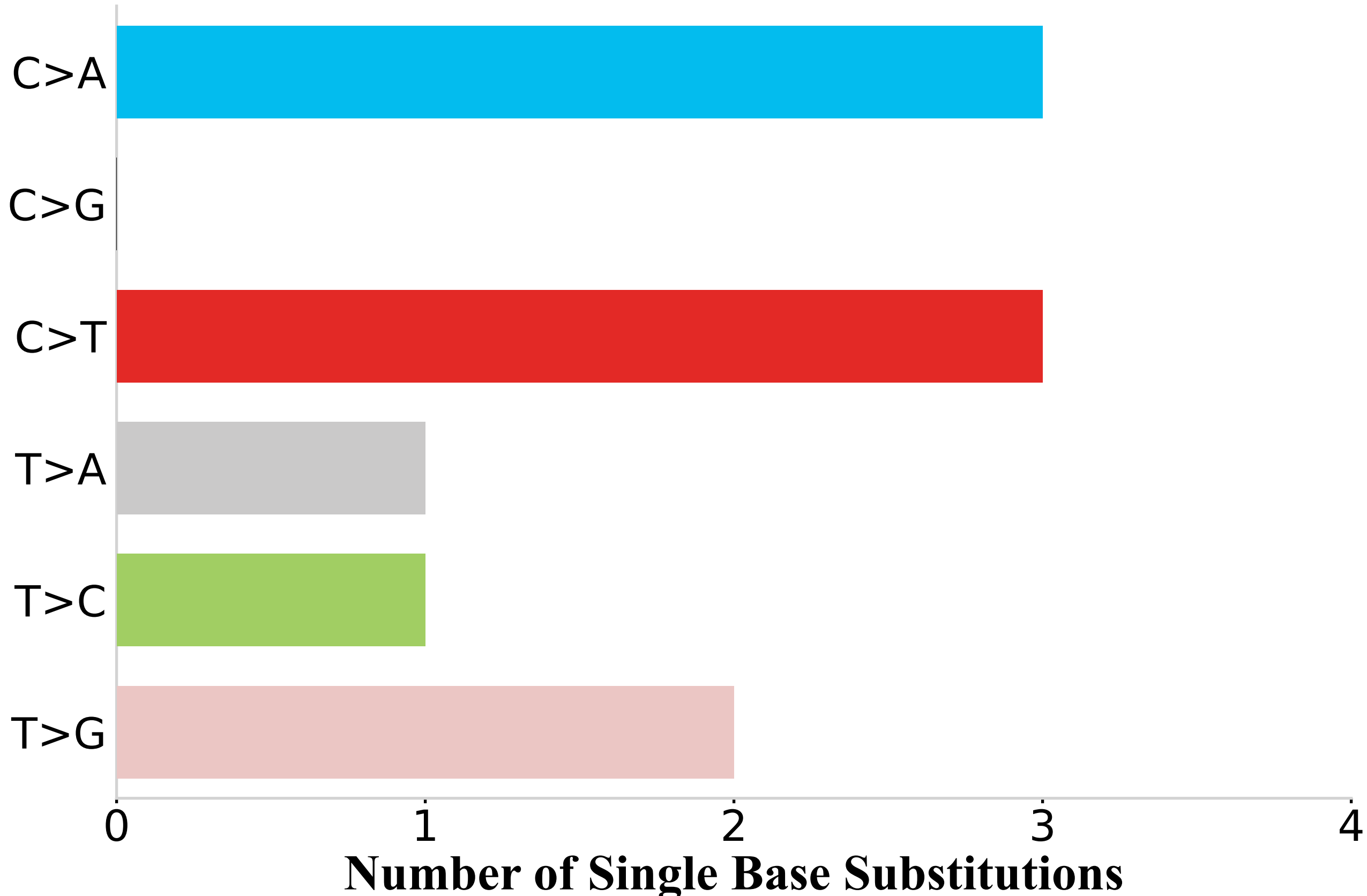
P-0003630-T02-IM5: 2 subs



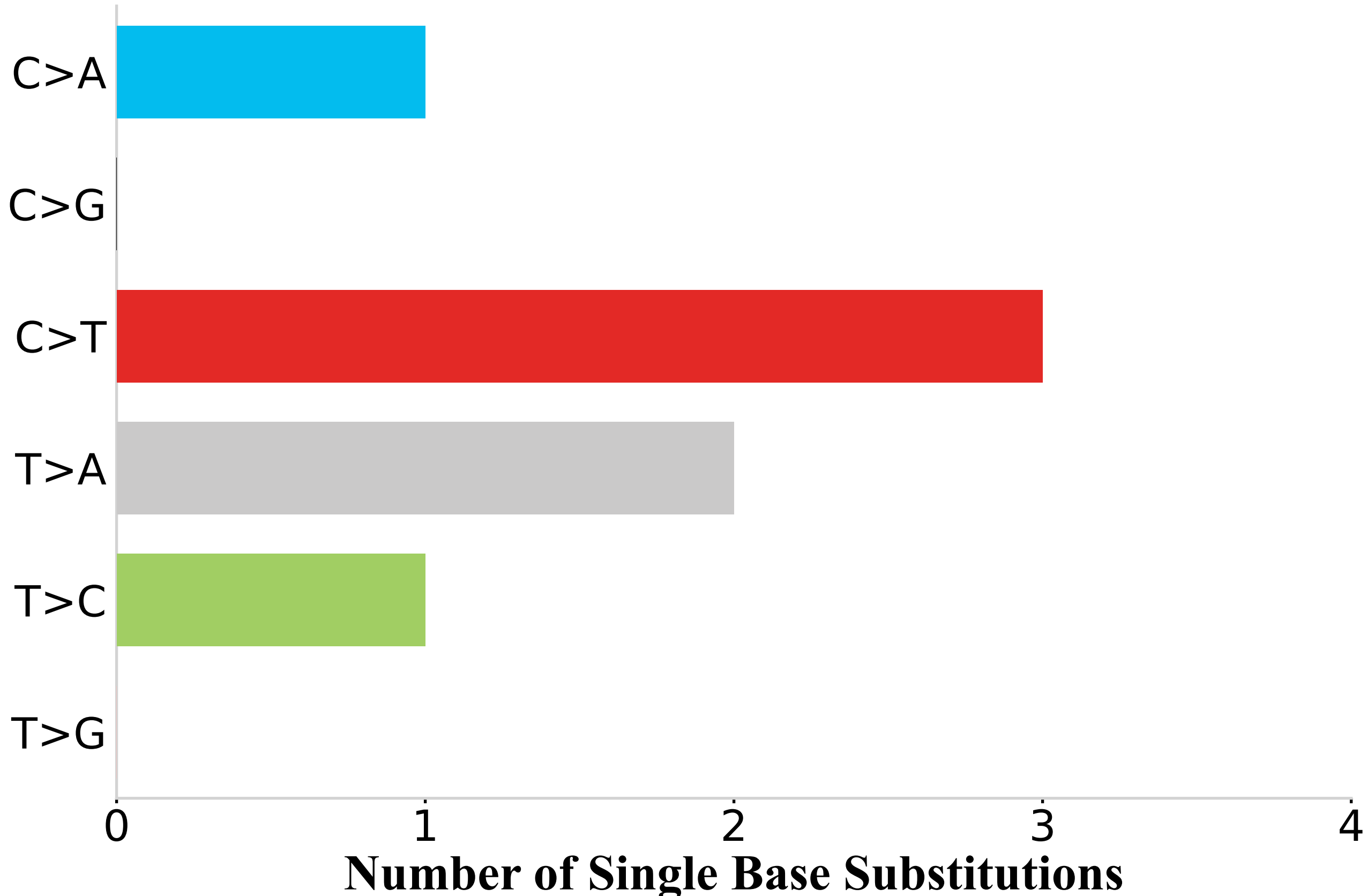
P-0003679-T01-IM5: 6 subs



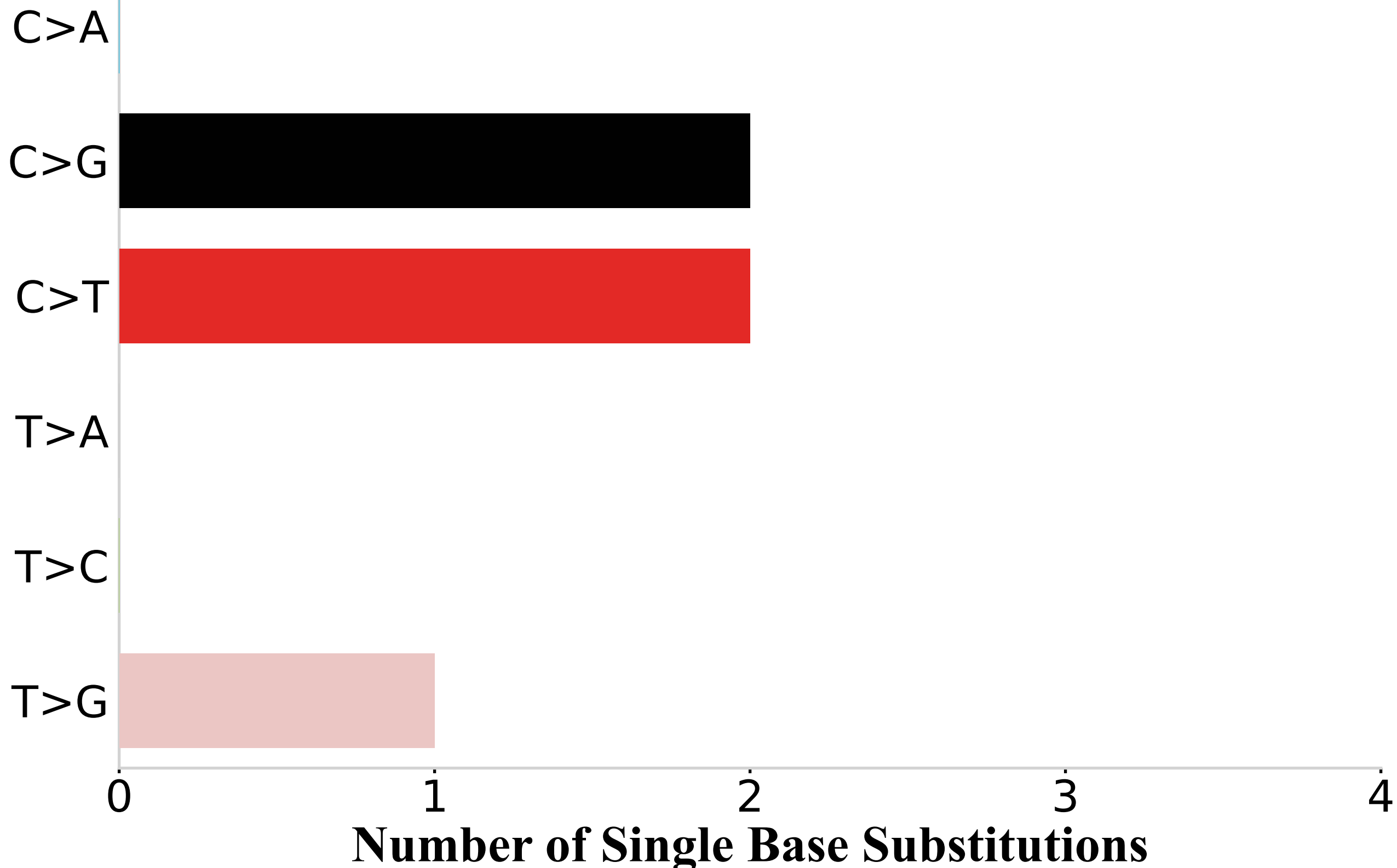
P-0003894-T01-IM5: 10 subs



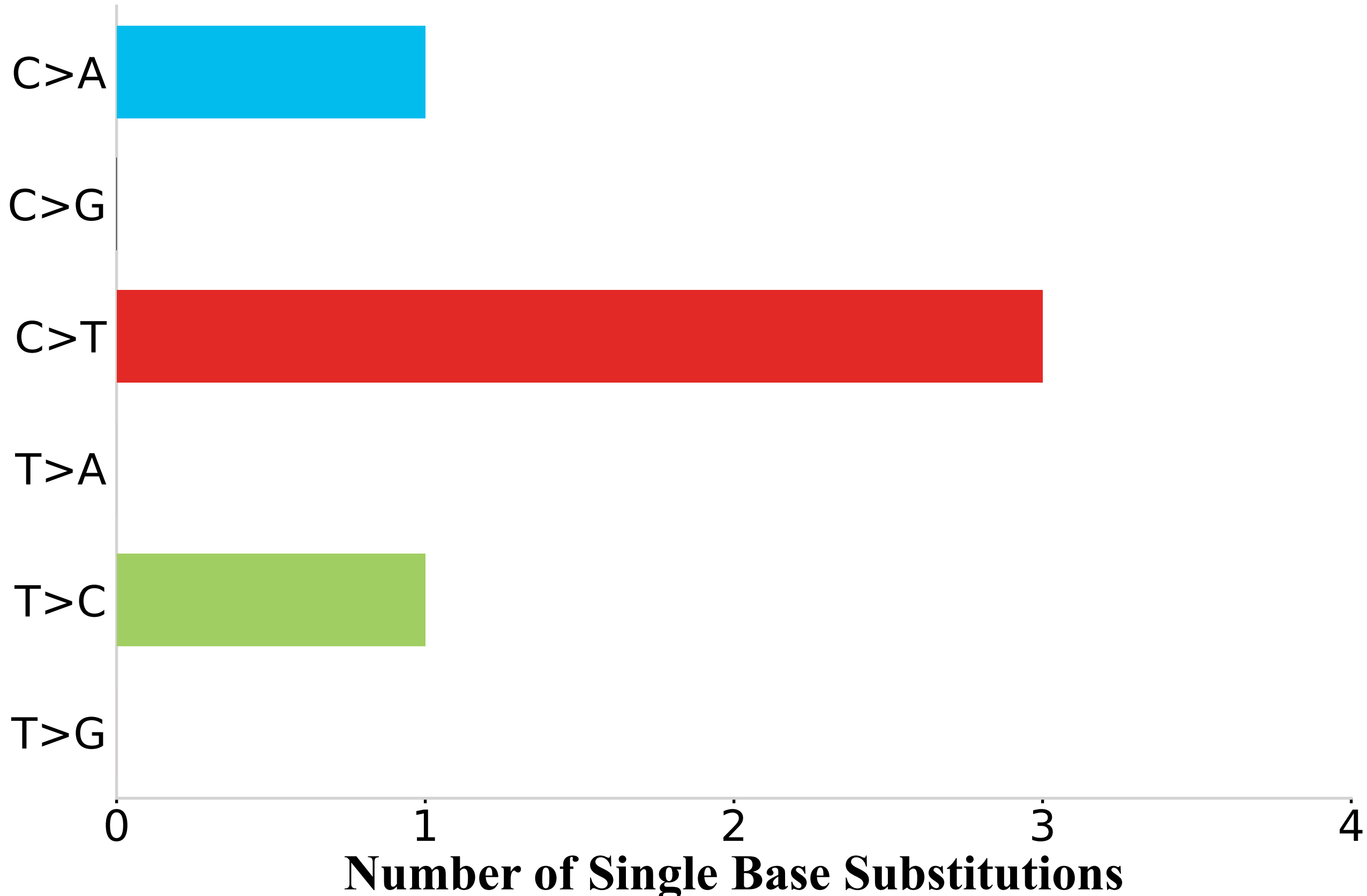
P-0003914-T01-IM3: 7 subs



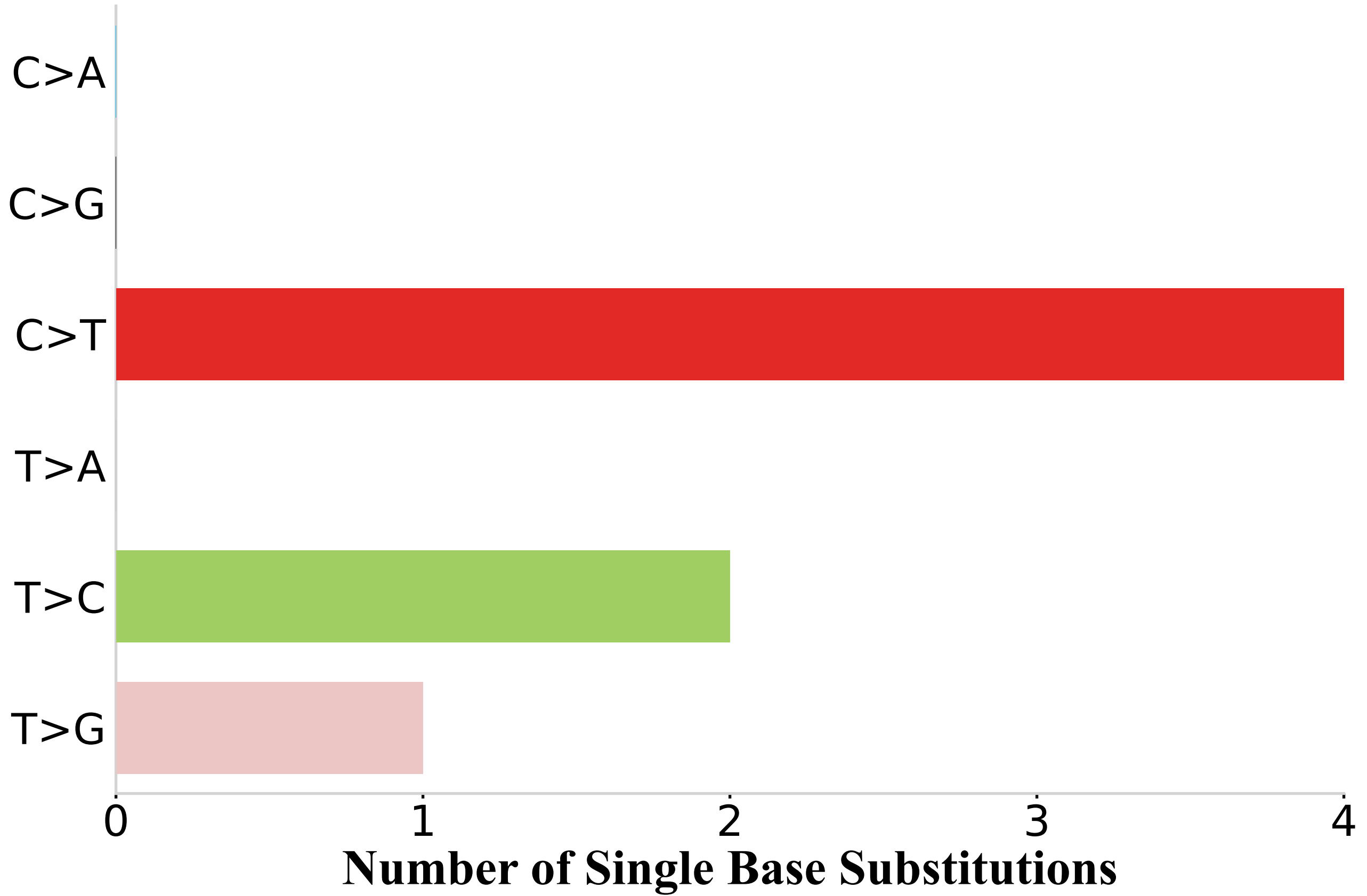
P-0003981-T01-IM3: 5 subs



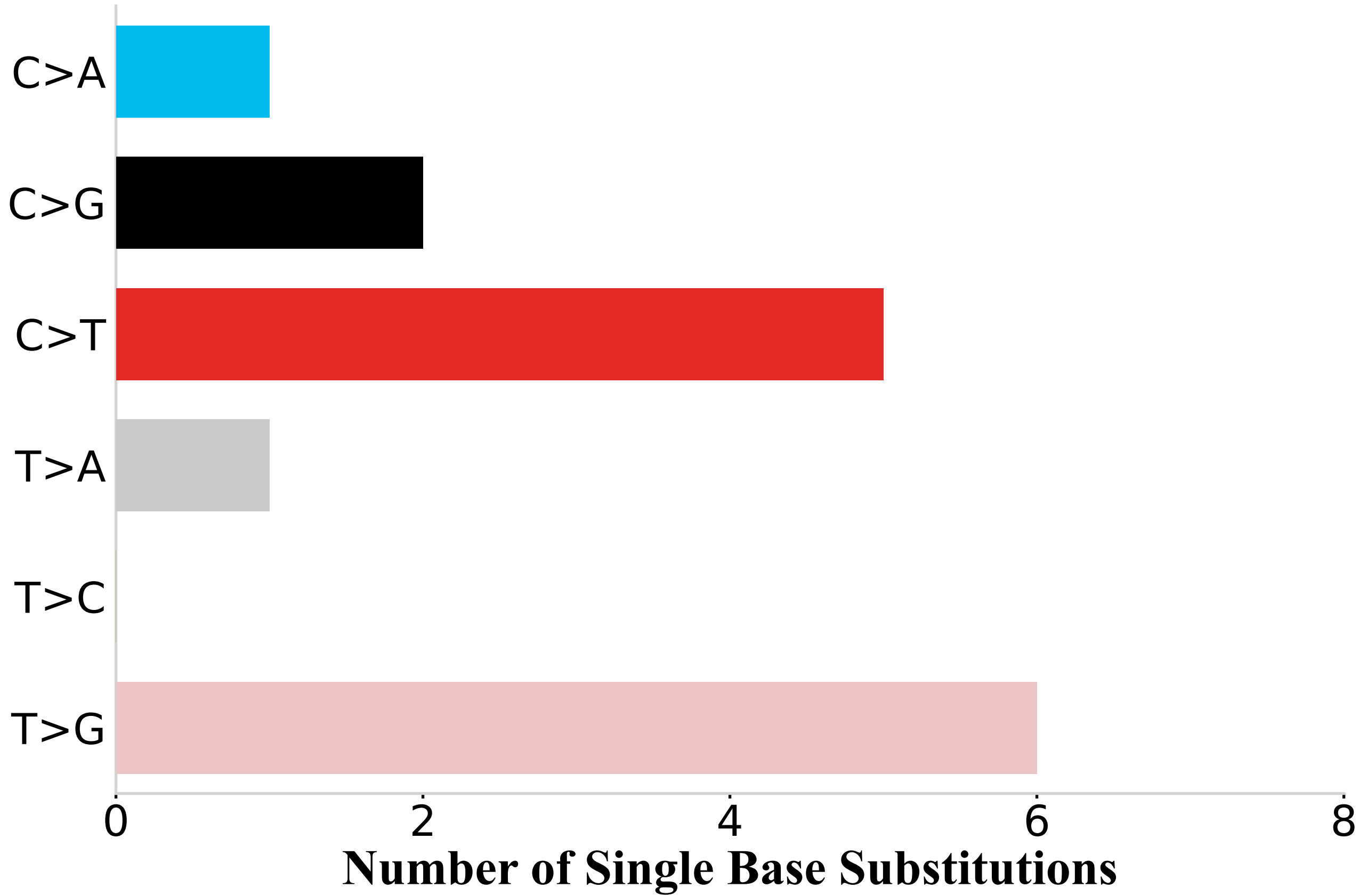
P-0004016-T01-IM5: 5 subs



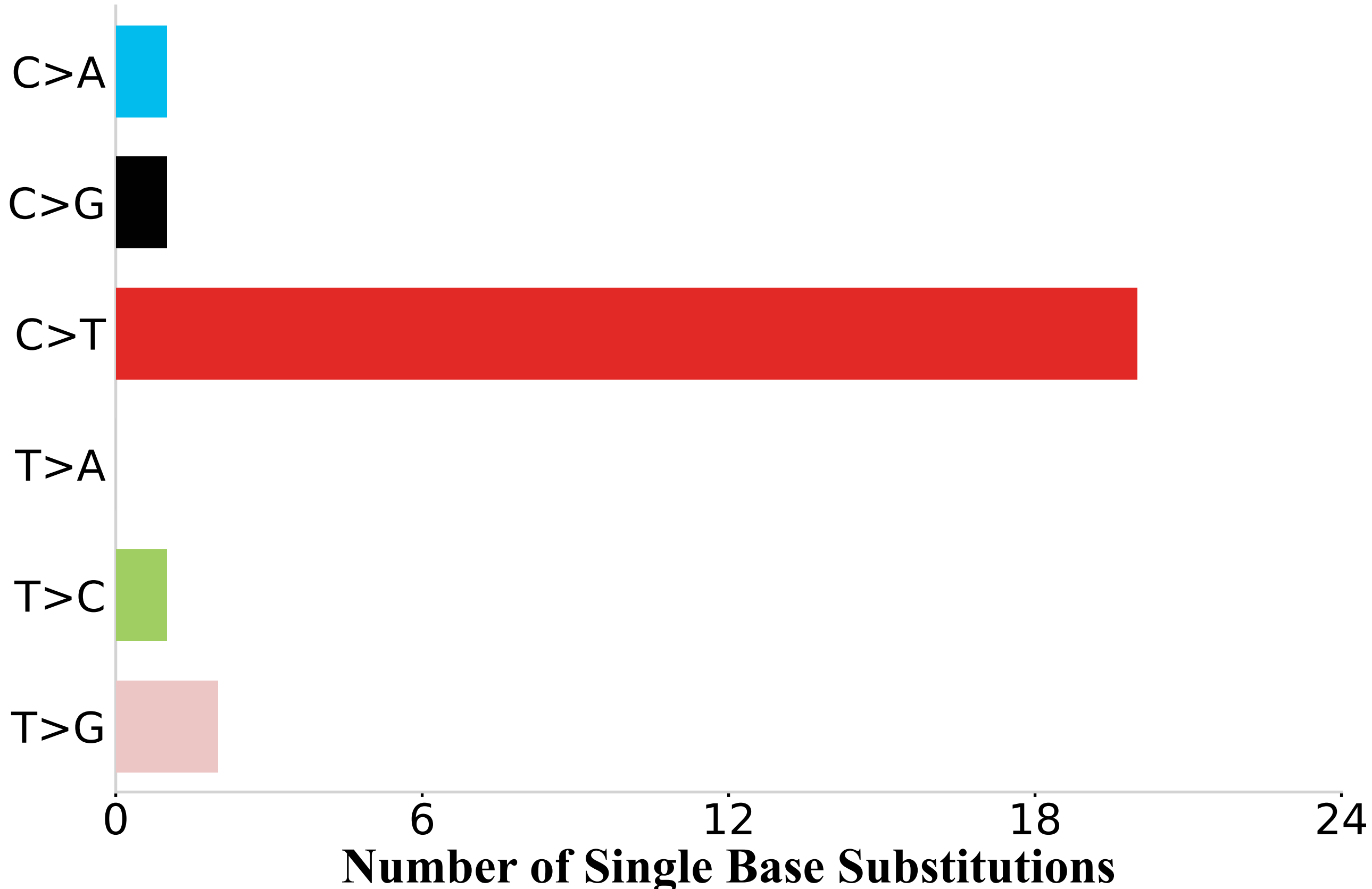
P-0004046-T02-IM5: 7 subs



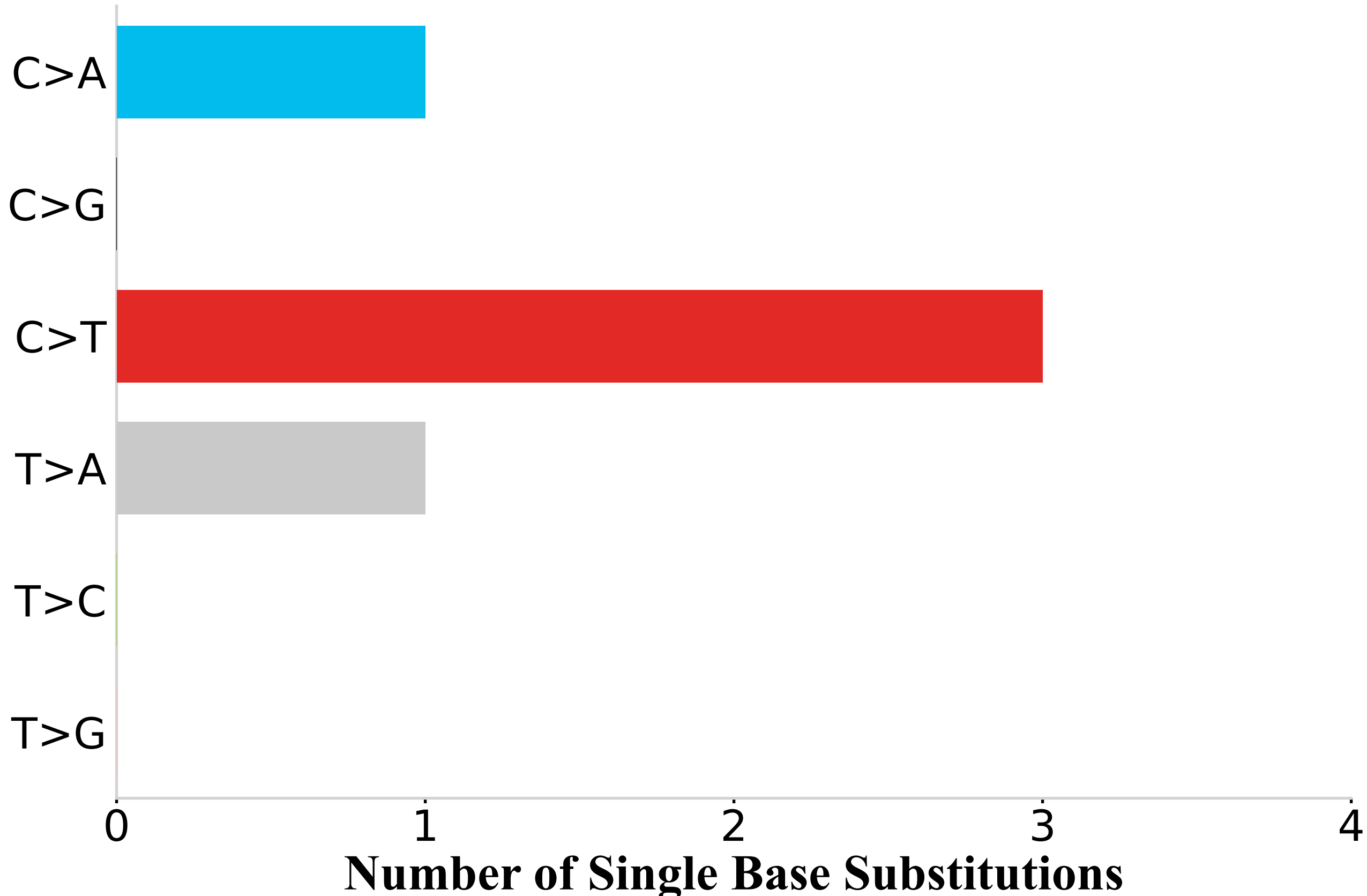
P-0004116-T01-IM5: 15 subs



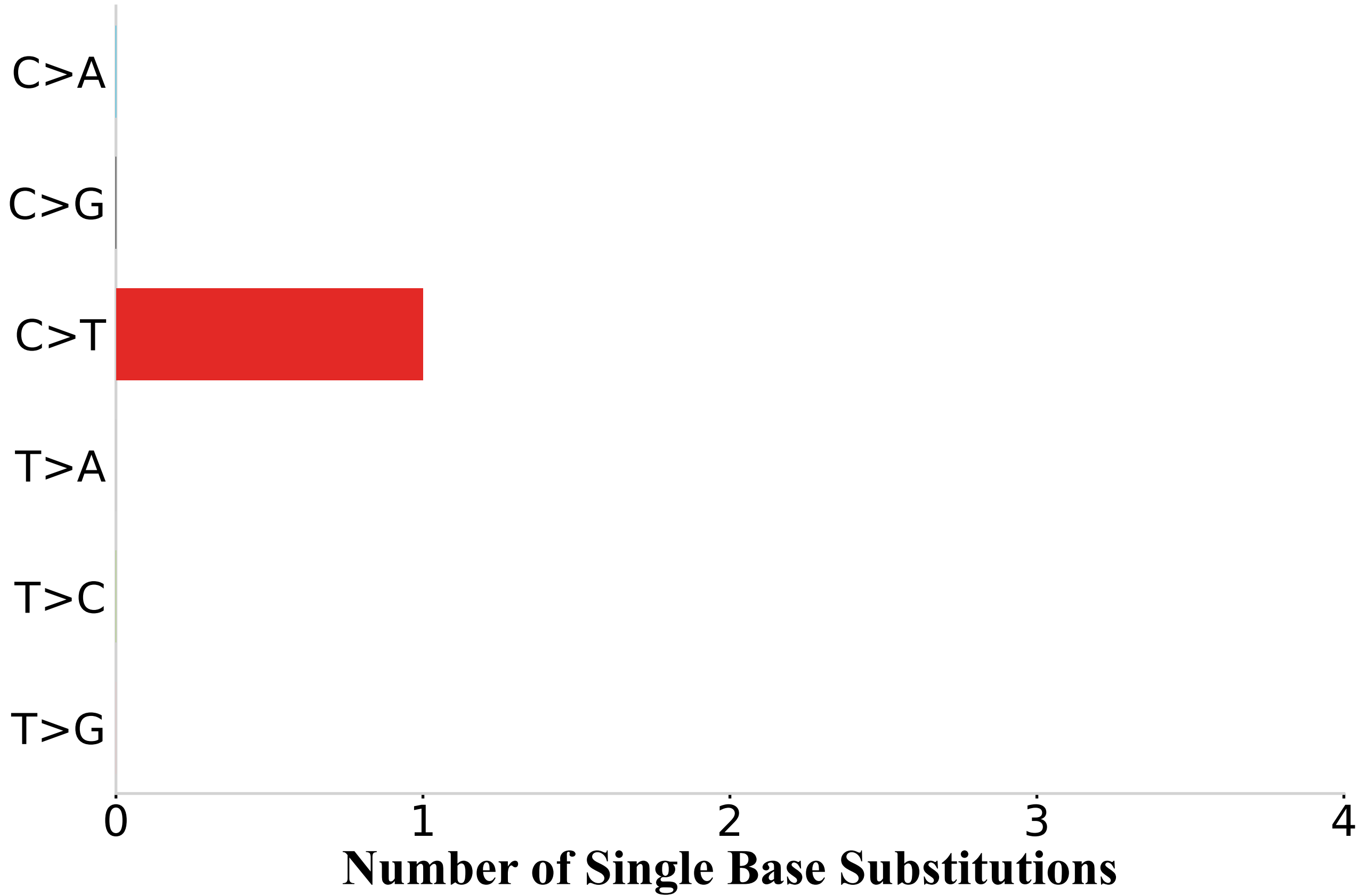
P-0004228-T01-IM5: 25 subs



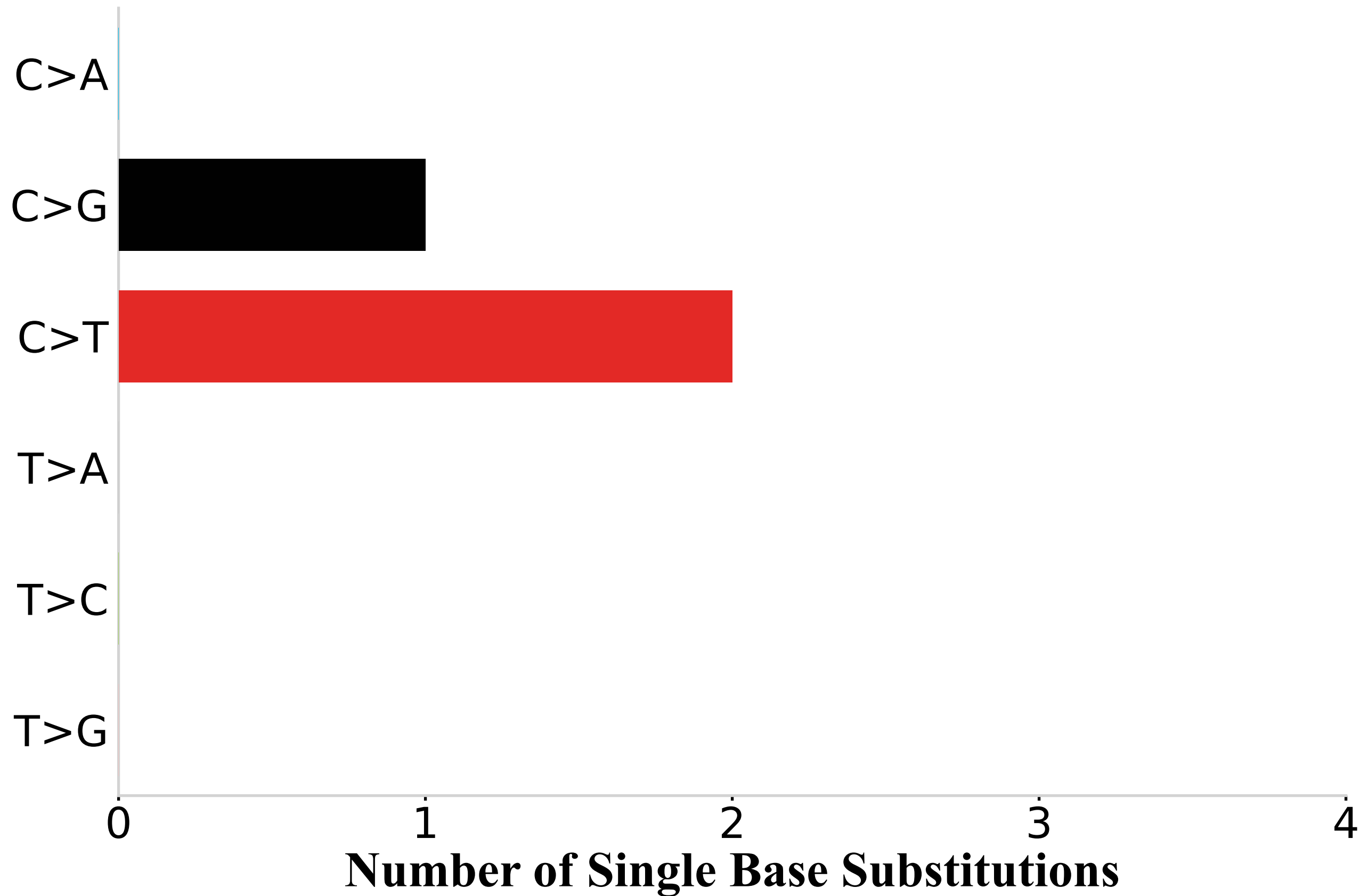
P-0004268-T01-IM5: 5 subs



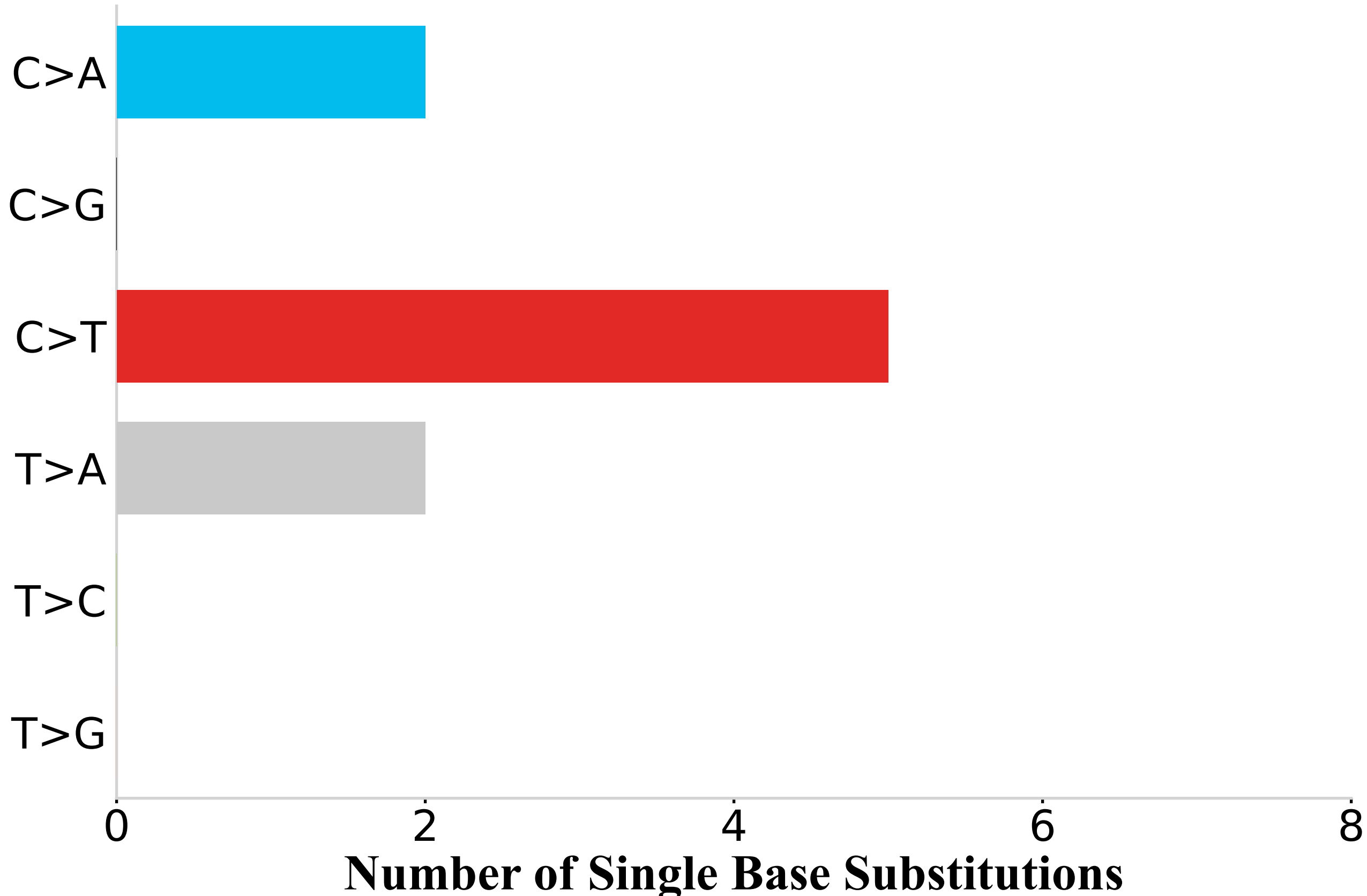
P-0004536-T01-IM5: 1 subs



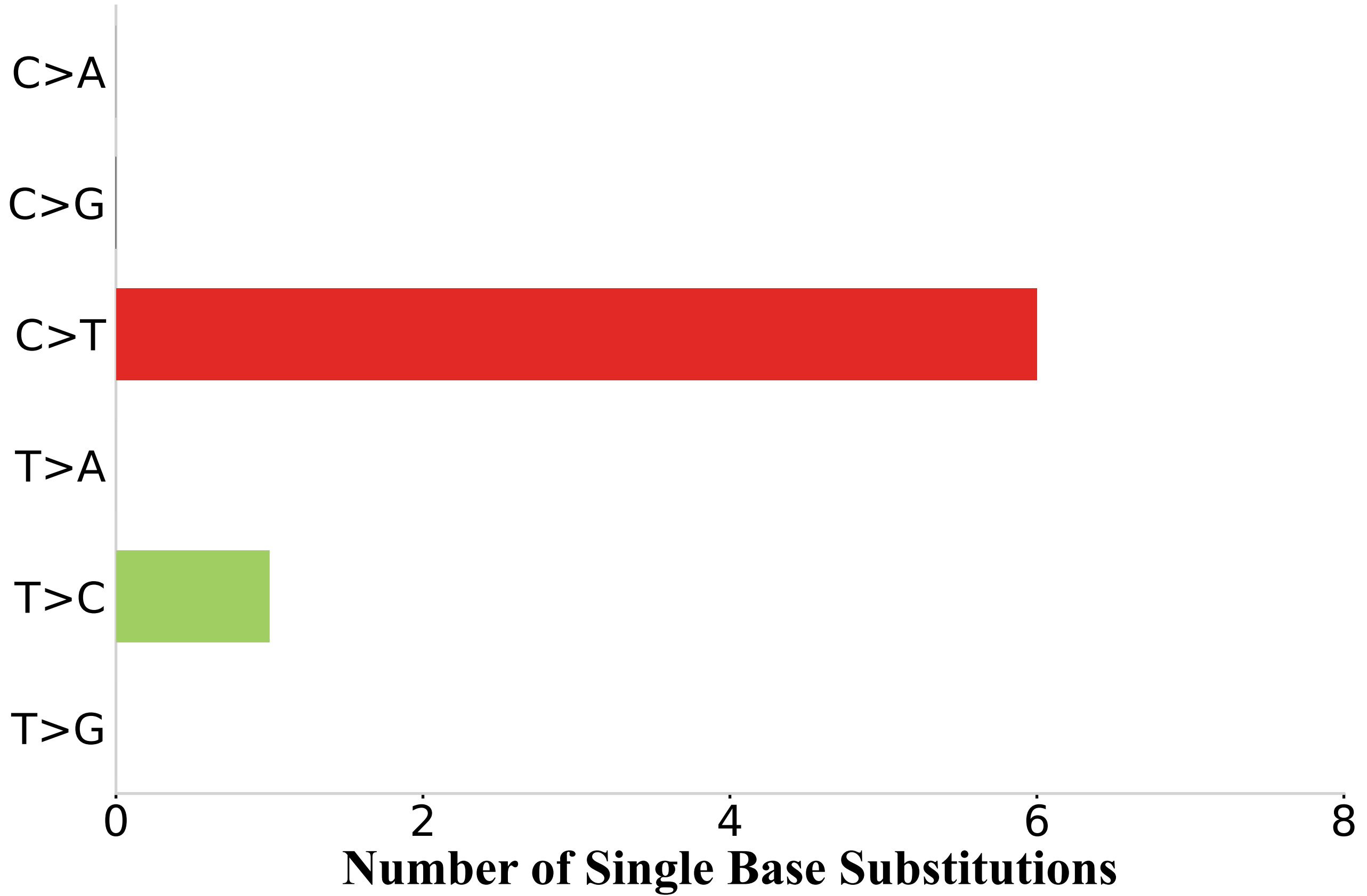
P-0004541-T01-IM5: 3 subs



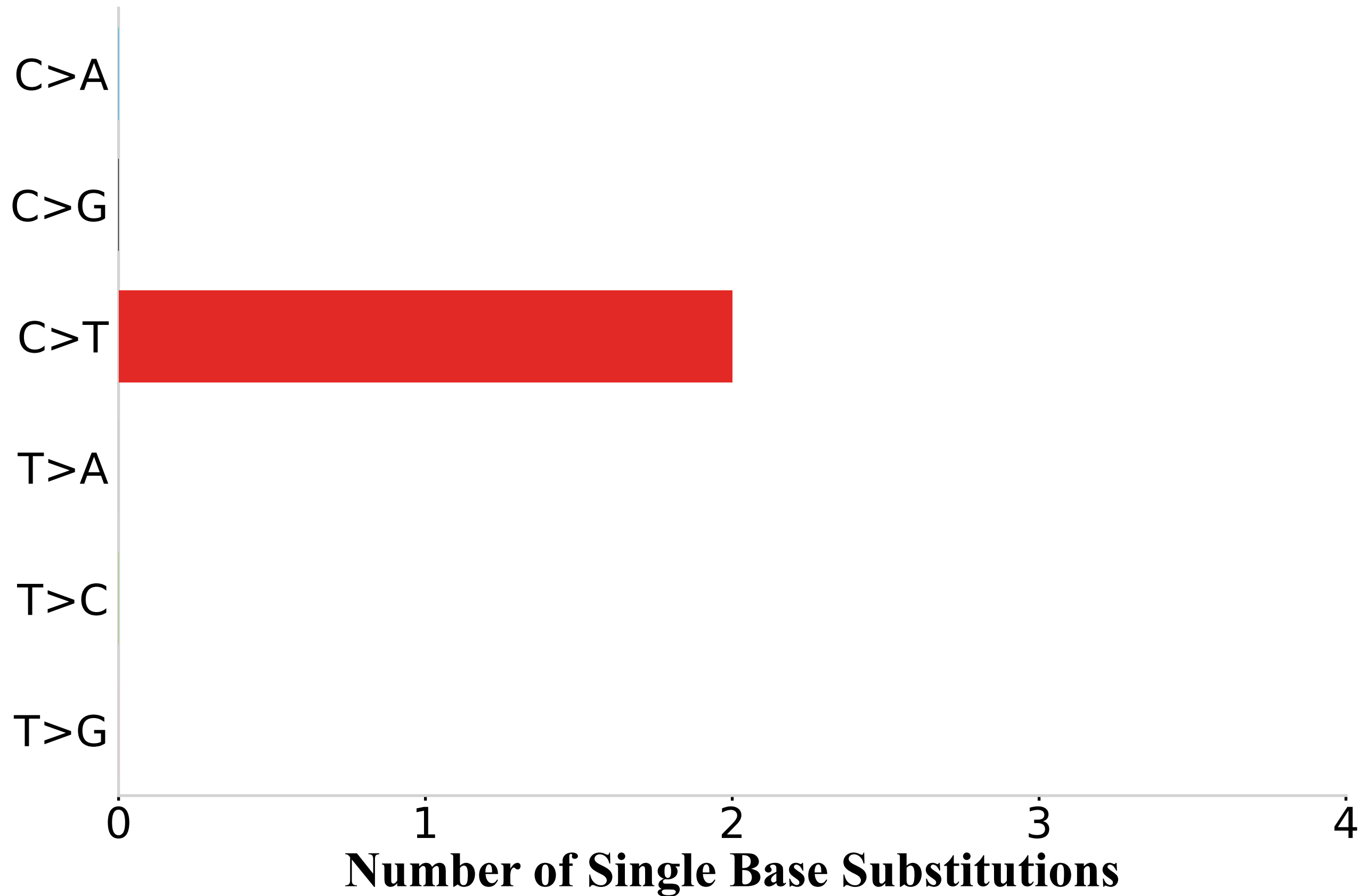
P-0004605-T02-IM5: 9 subs



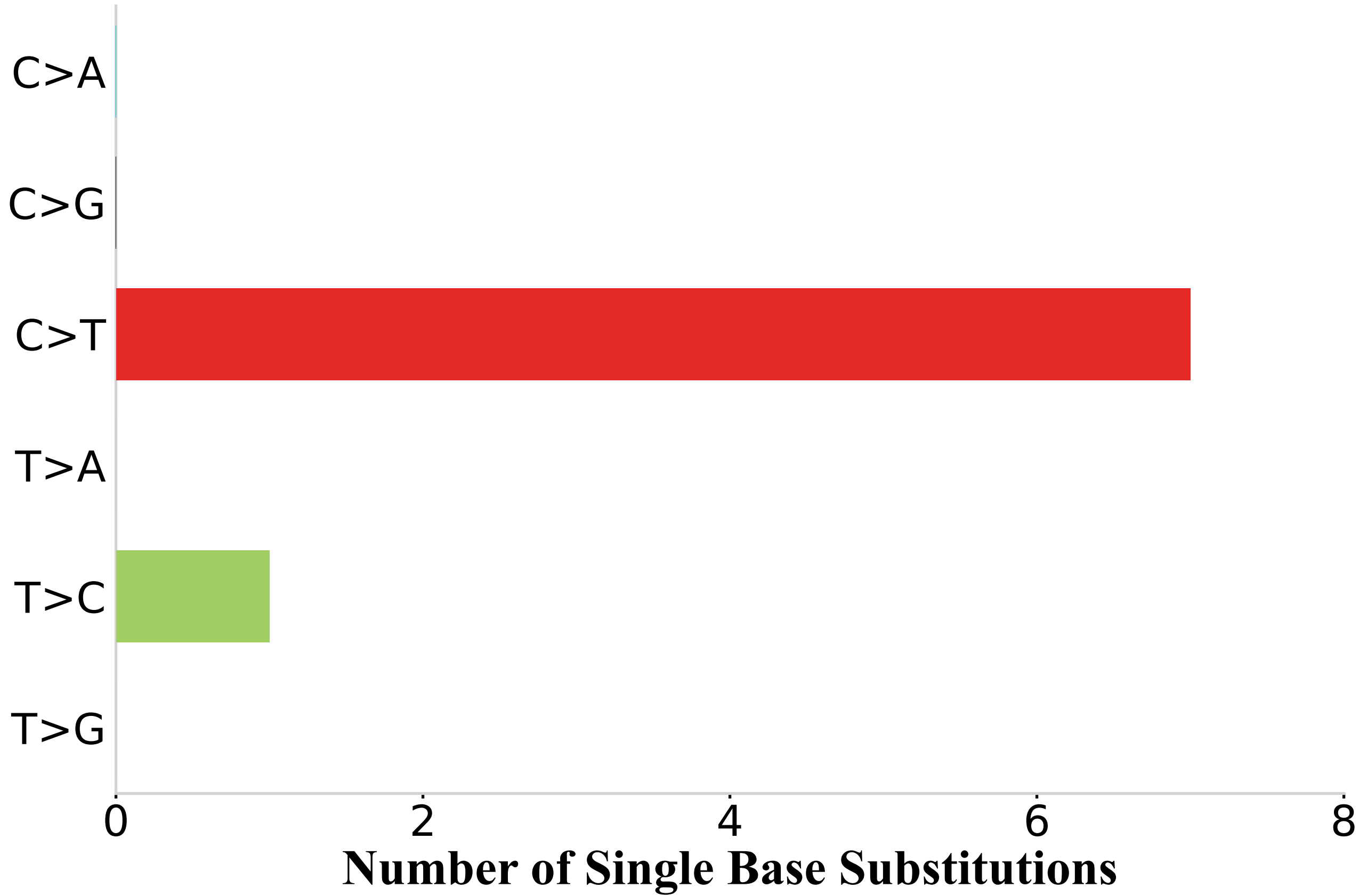
P-0004616-T01-IM5: 7 subs



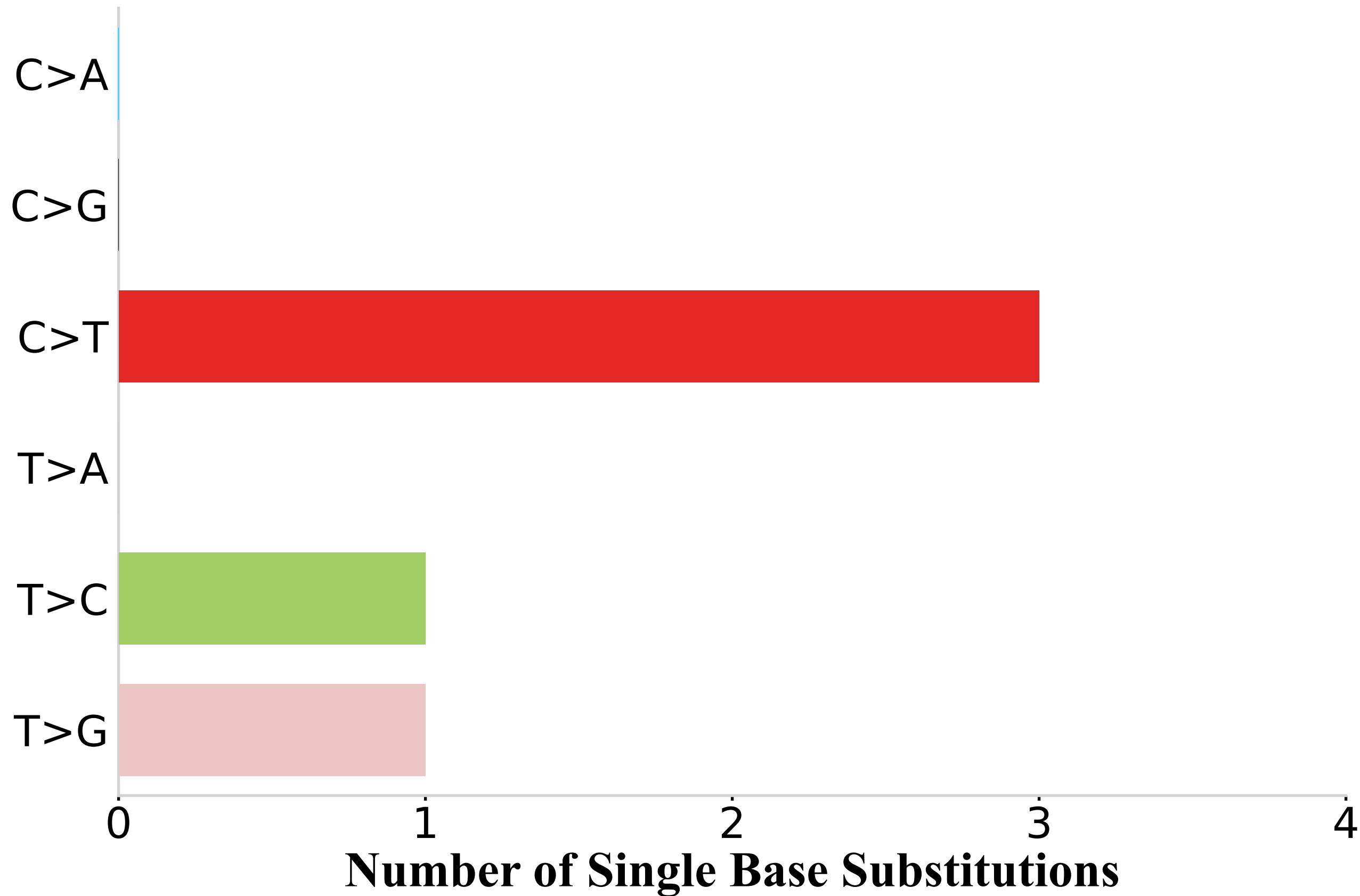
P-0004958-T01-IM5: 2 subs



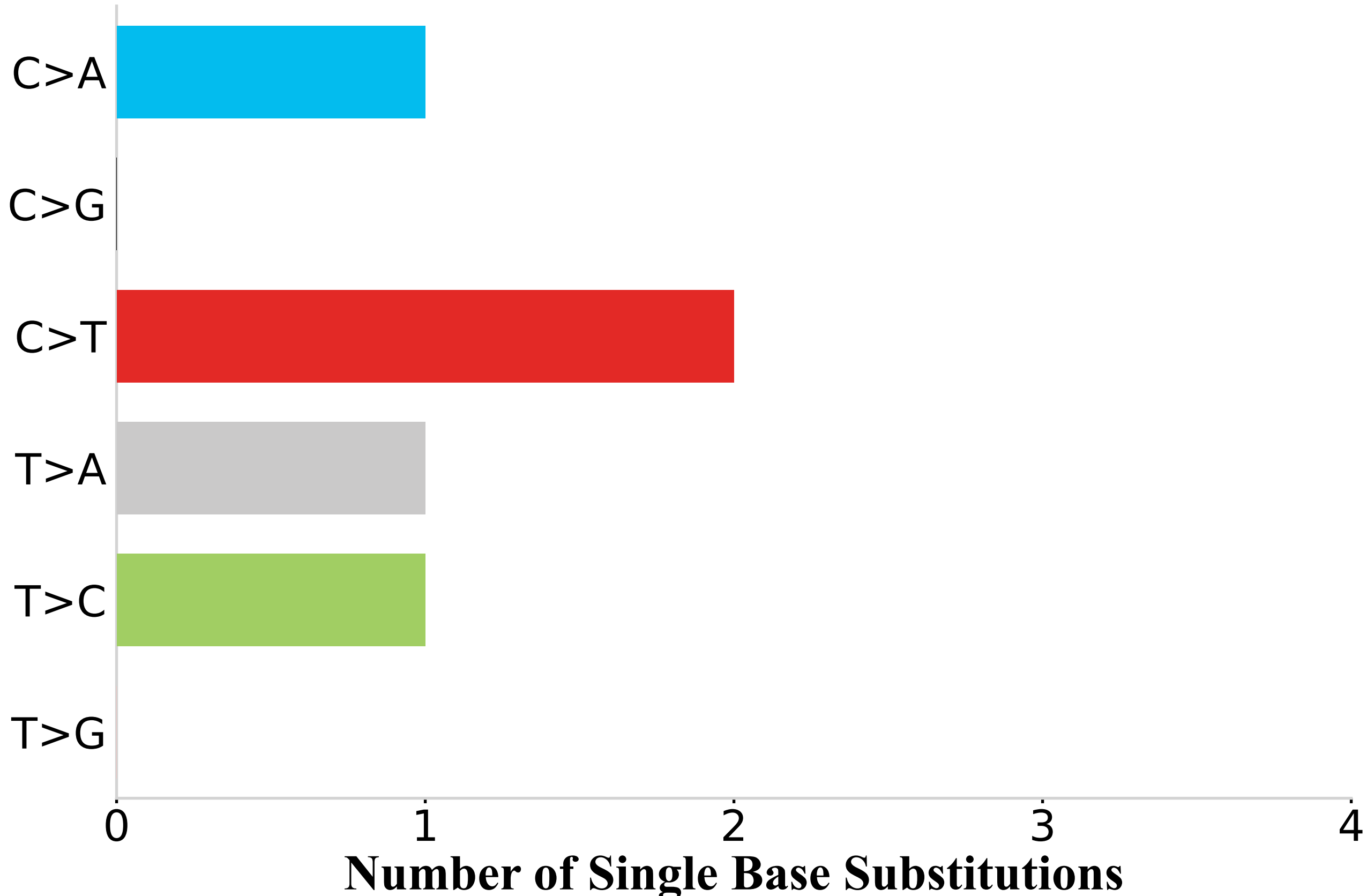
P-0005106-T01-IM5: 8 subs



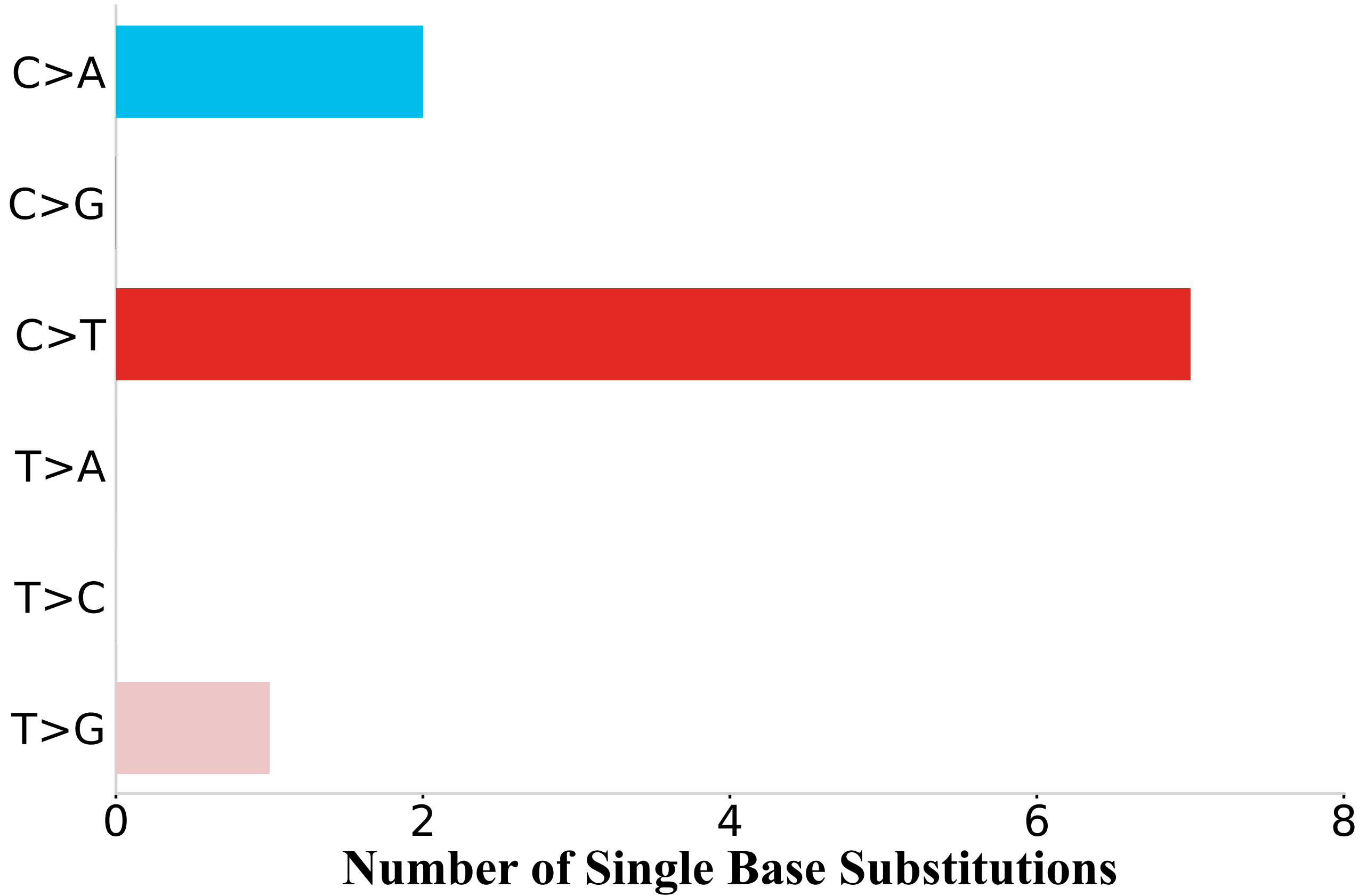
P-0005300-T01-IM5: 5 subs



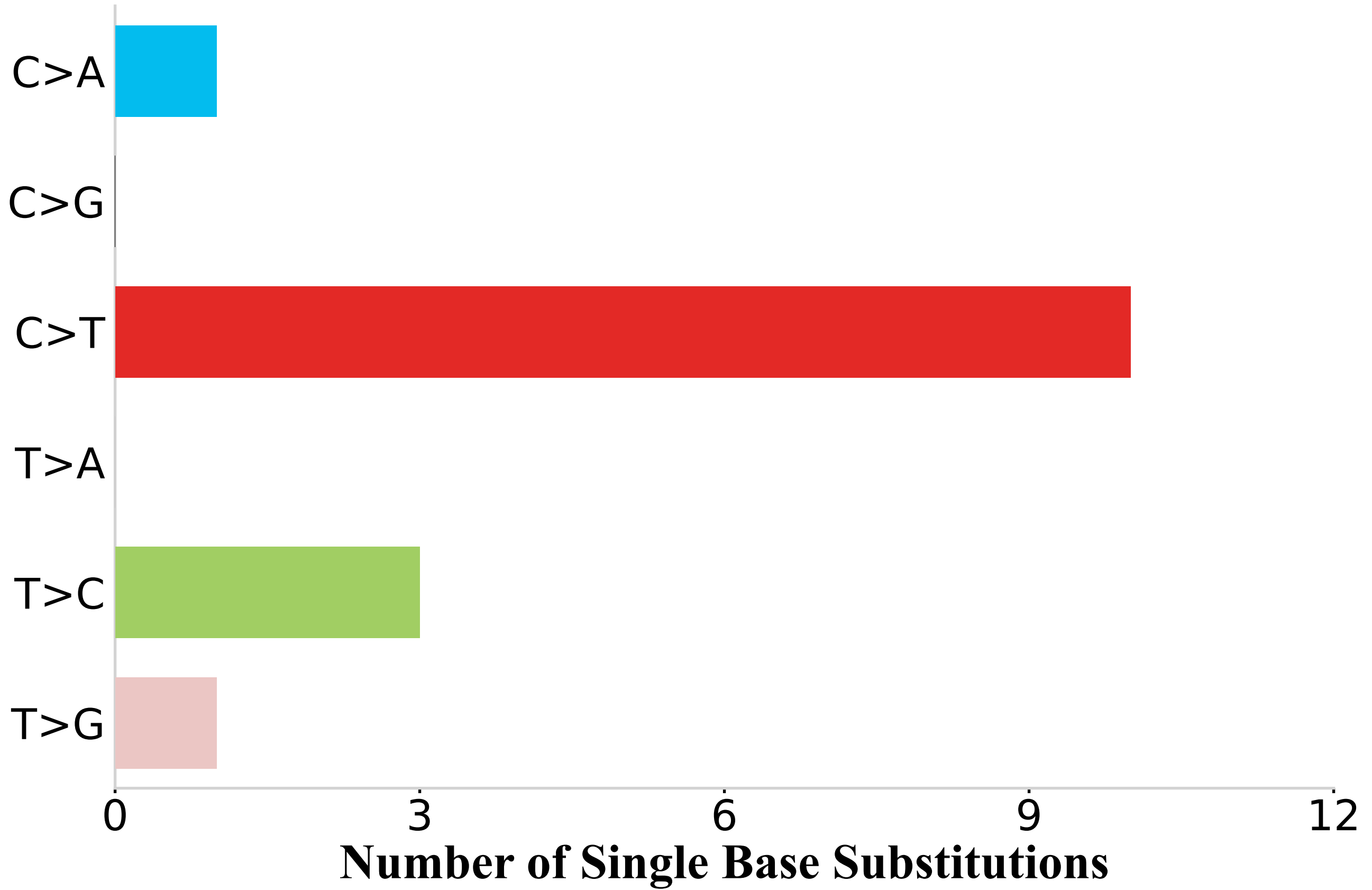
P-0005471-T01-IM5: 5 subs



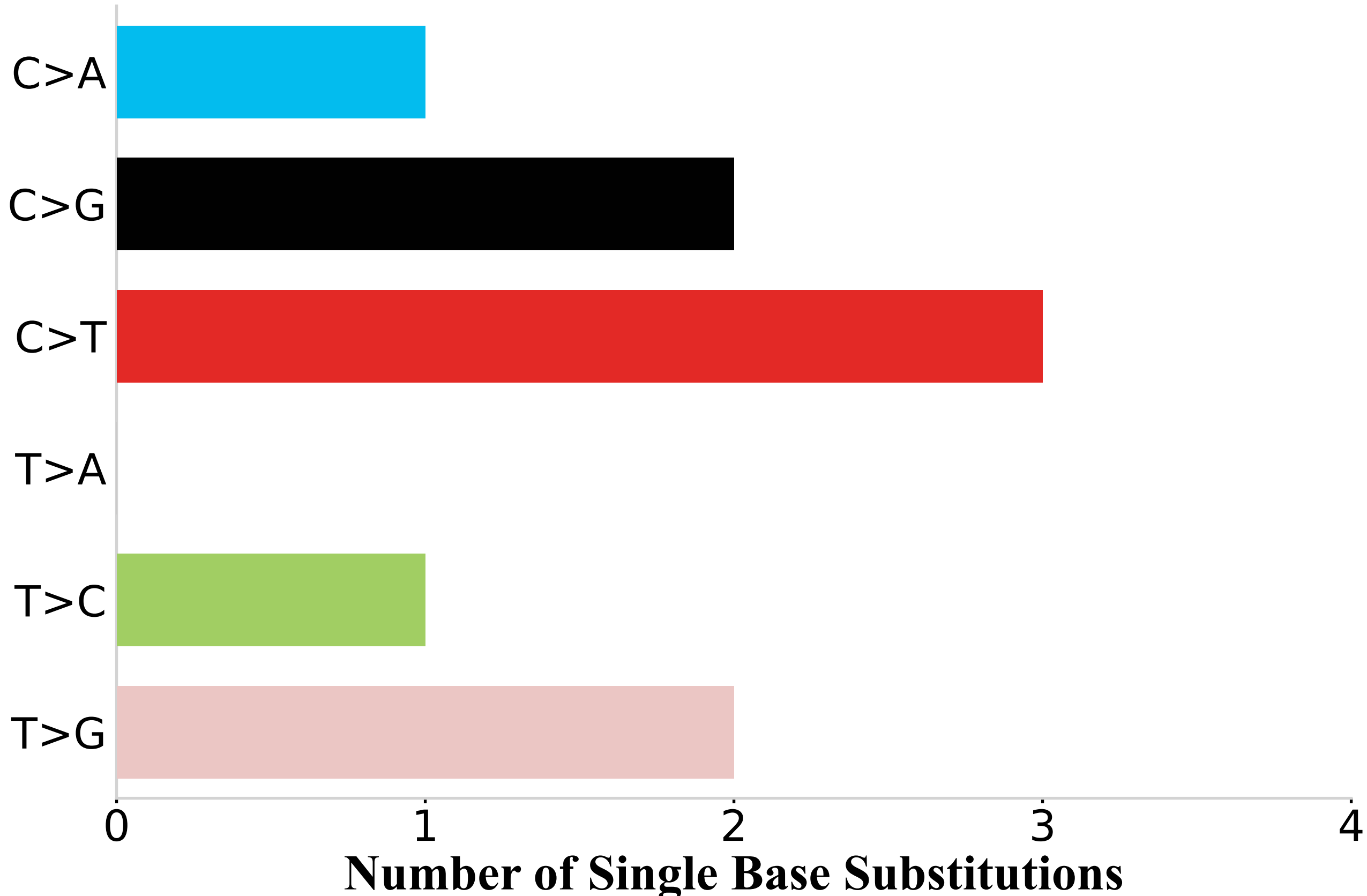
P-0005488-T01-IM5: 10 subs



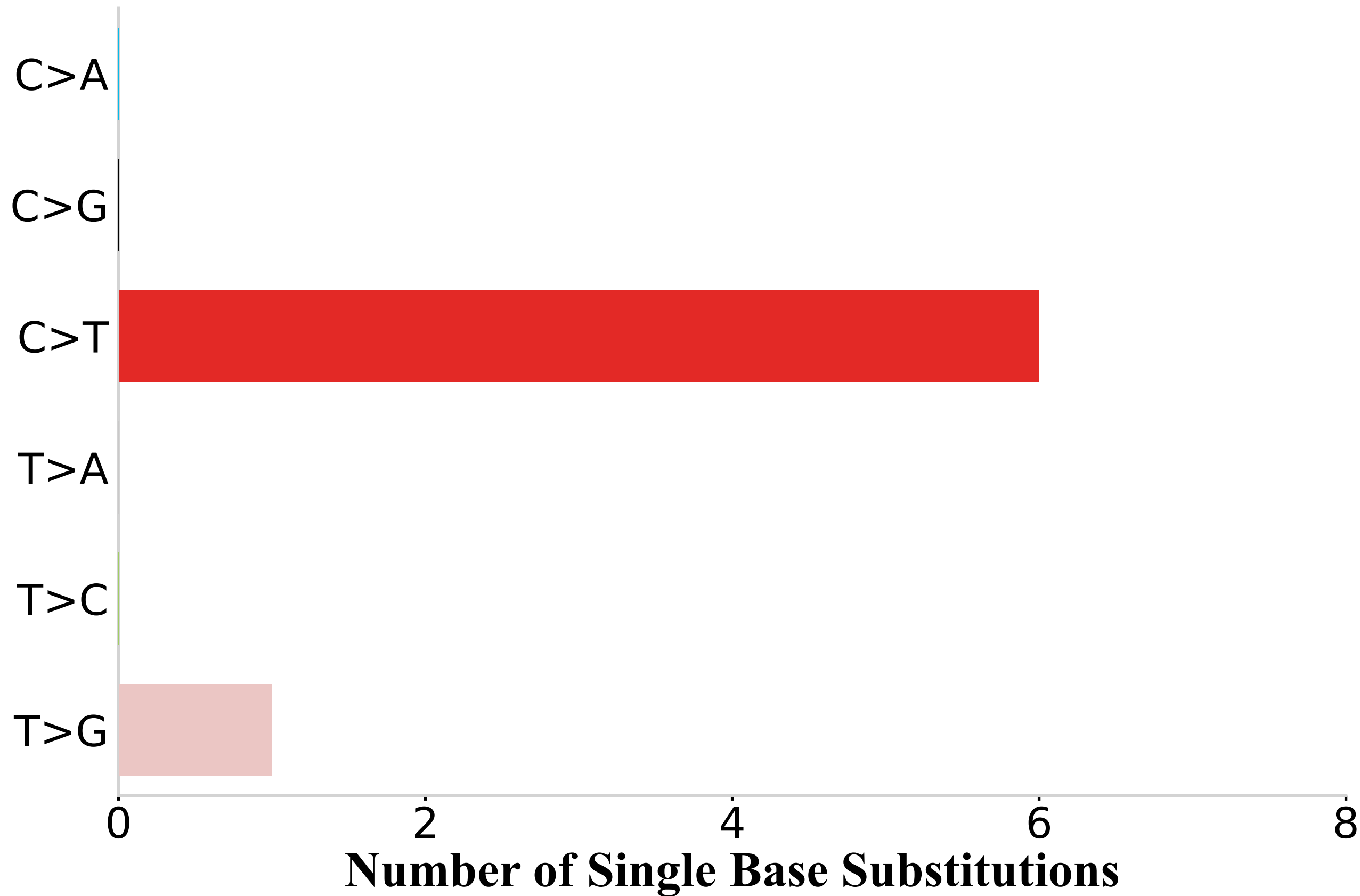
P-0005500-T01-IM5: 15 subs



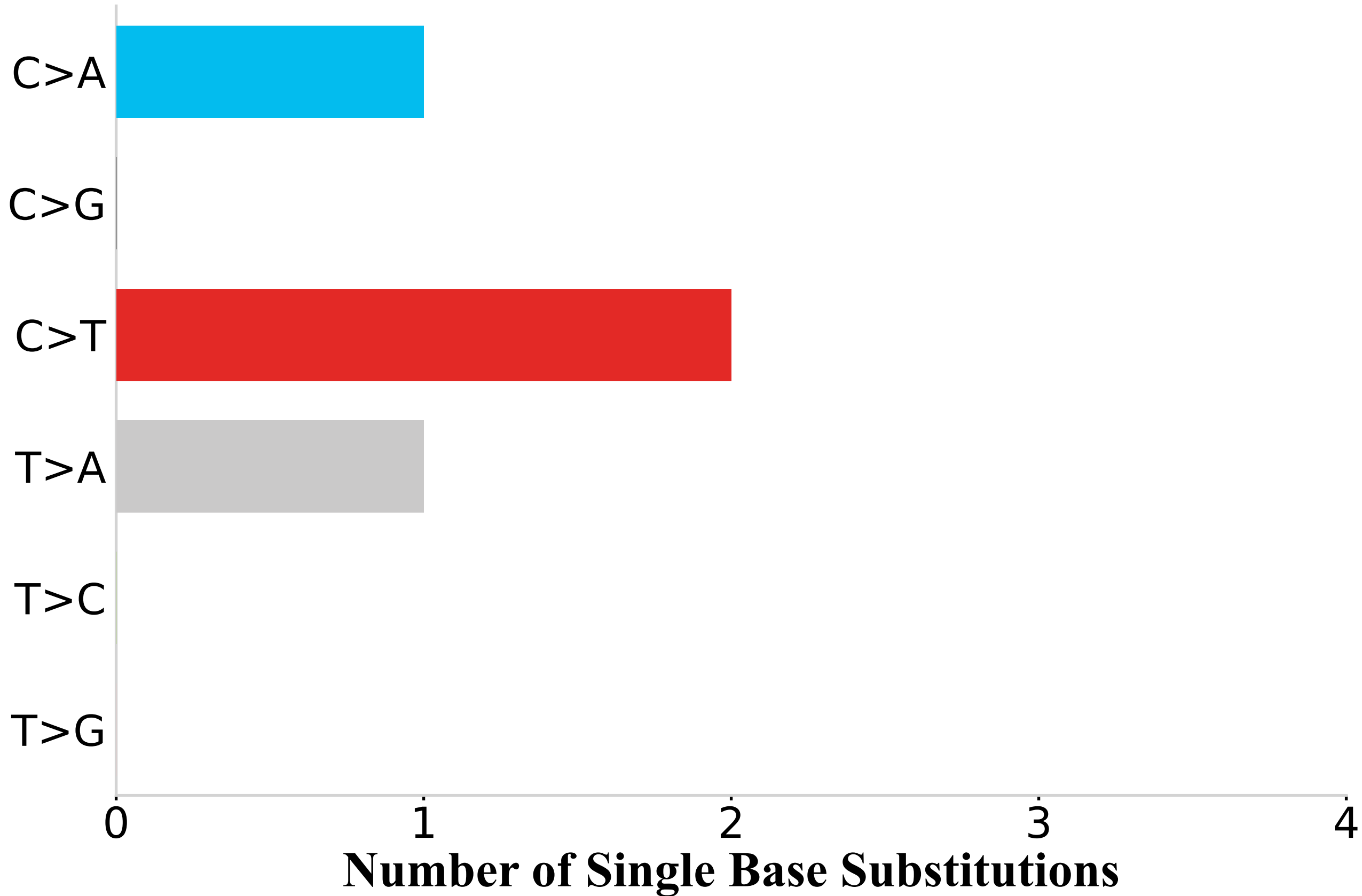
P-0005618-T02-IM5: 9 subs



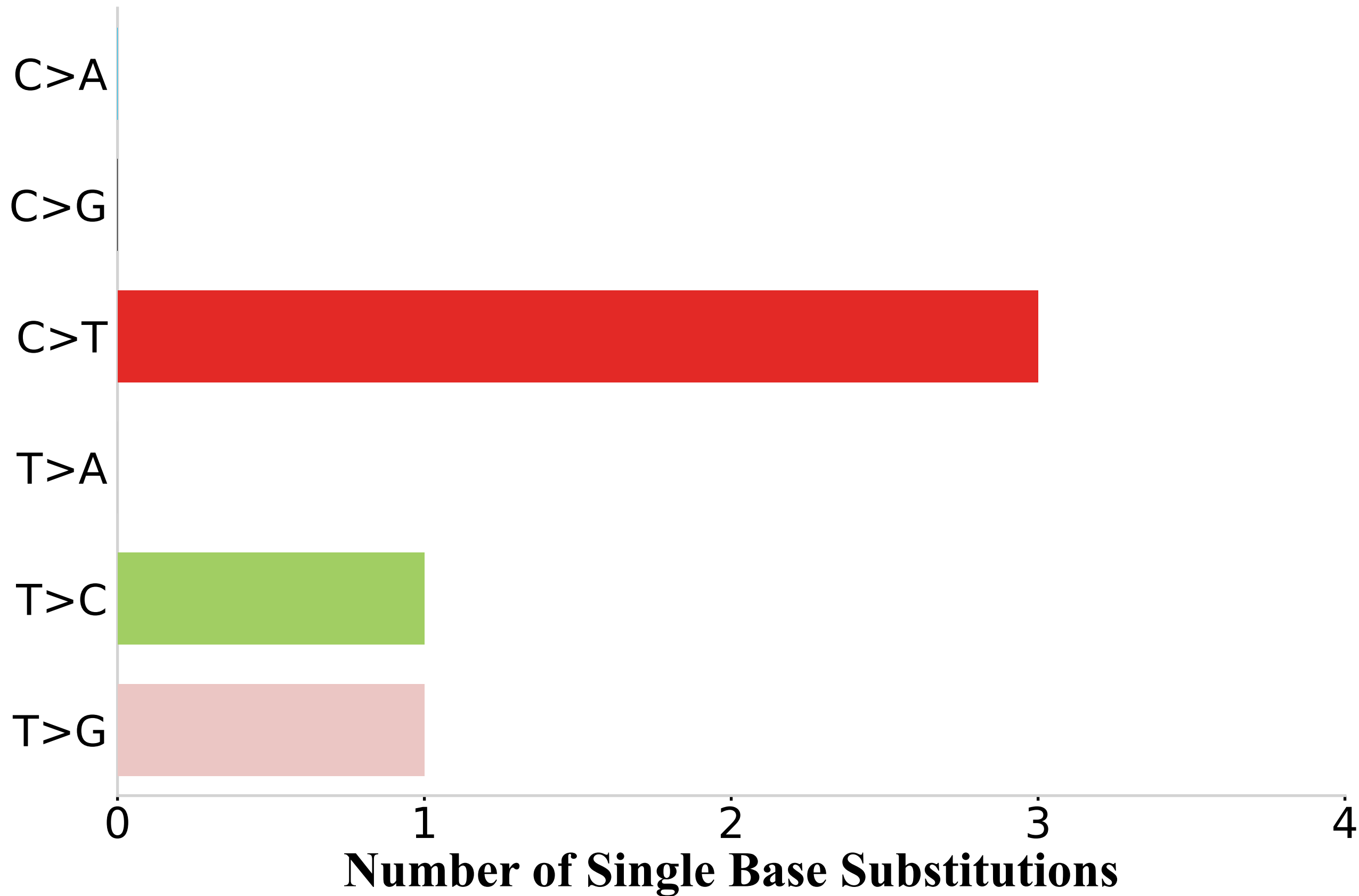
P-0005767-T02-IM5: 7 subs



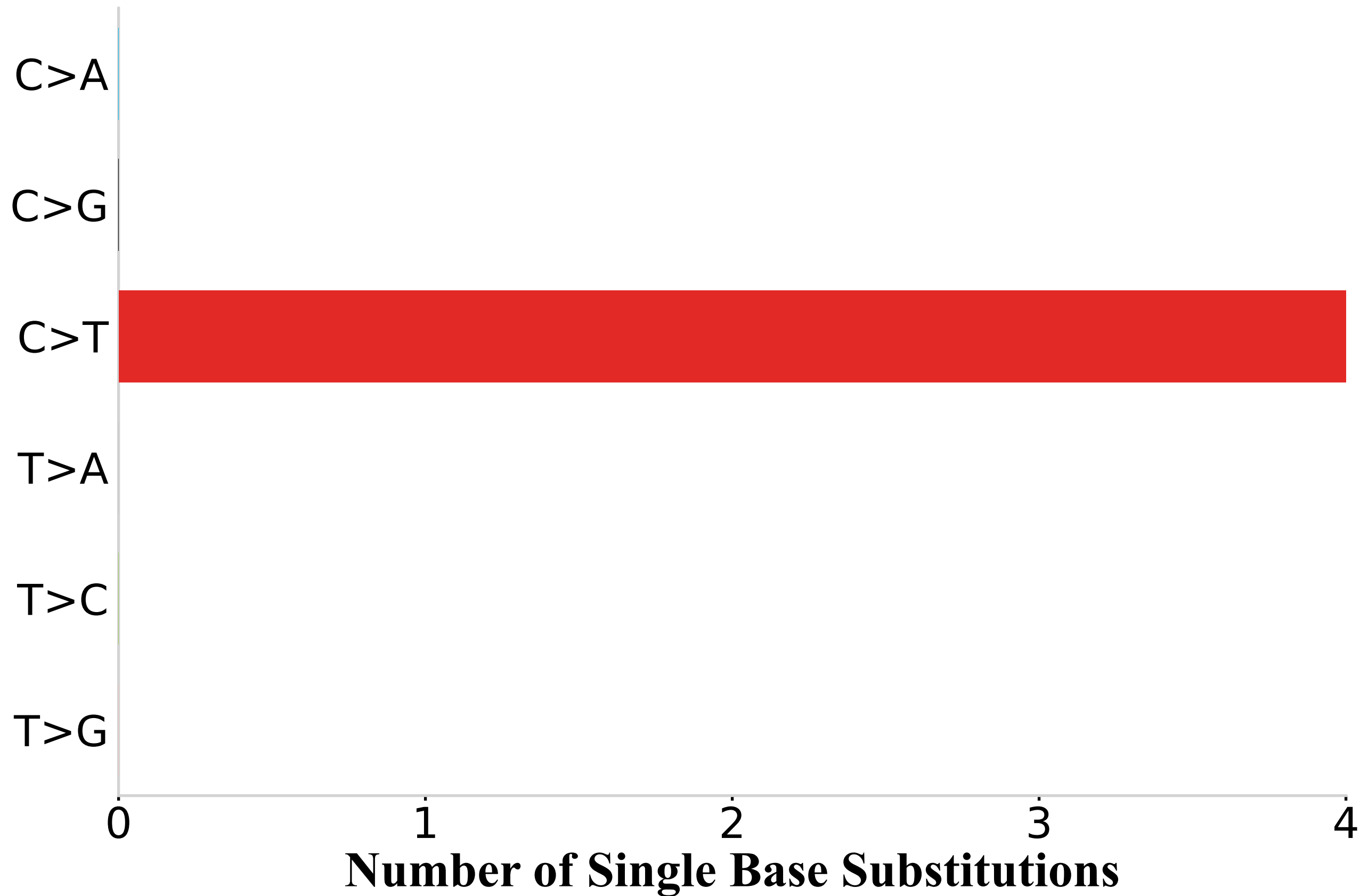
P-0005819-T01-IM5: 4 subs



P-0005899-T01-IM5: 5 subs



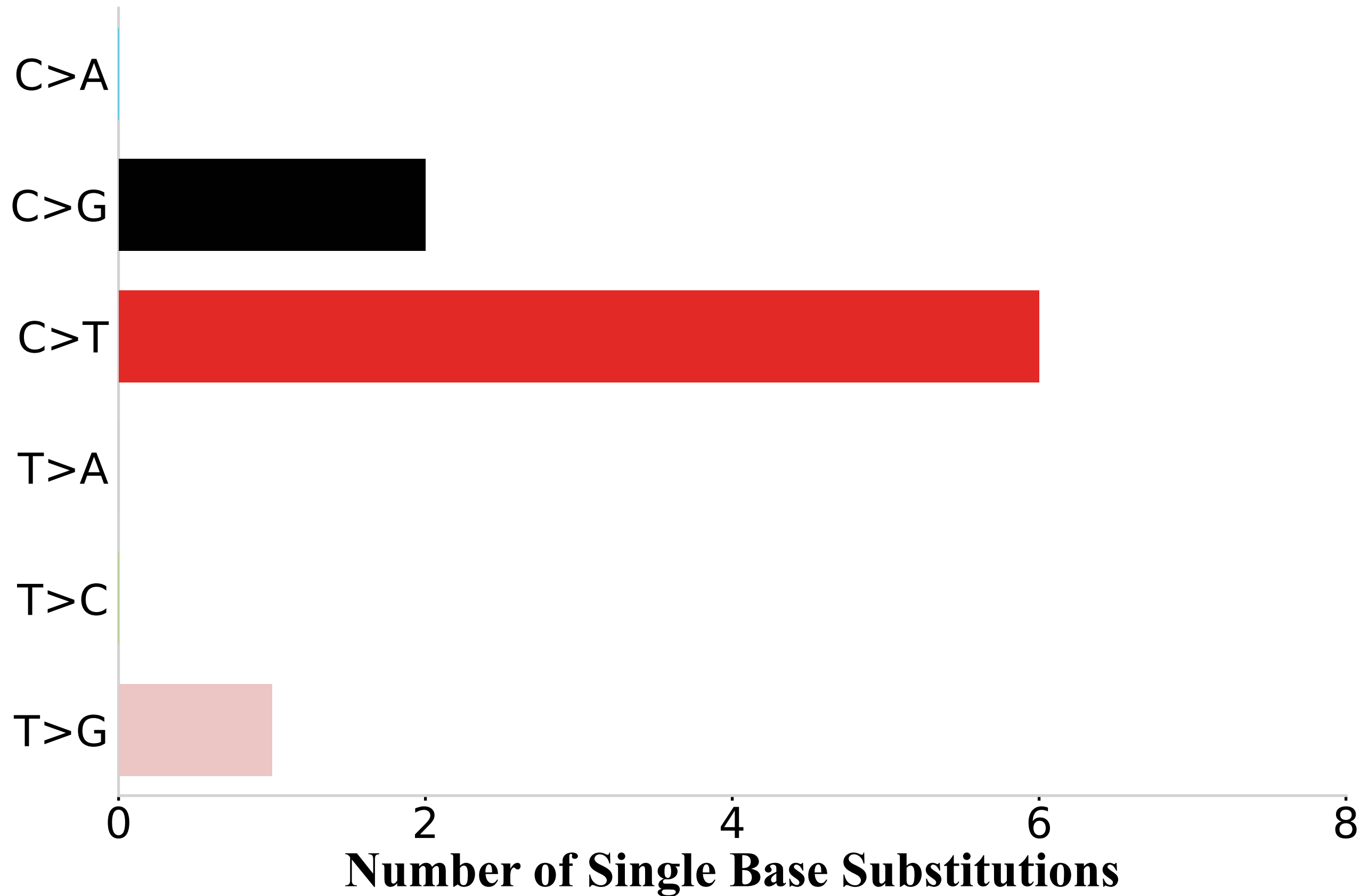
P-0005930-T01-IM5: 4 subs



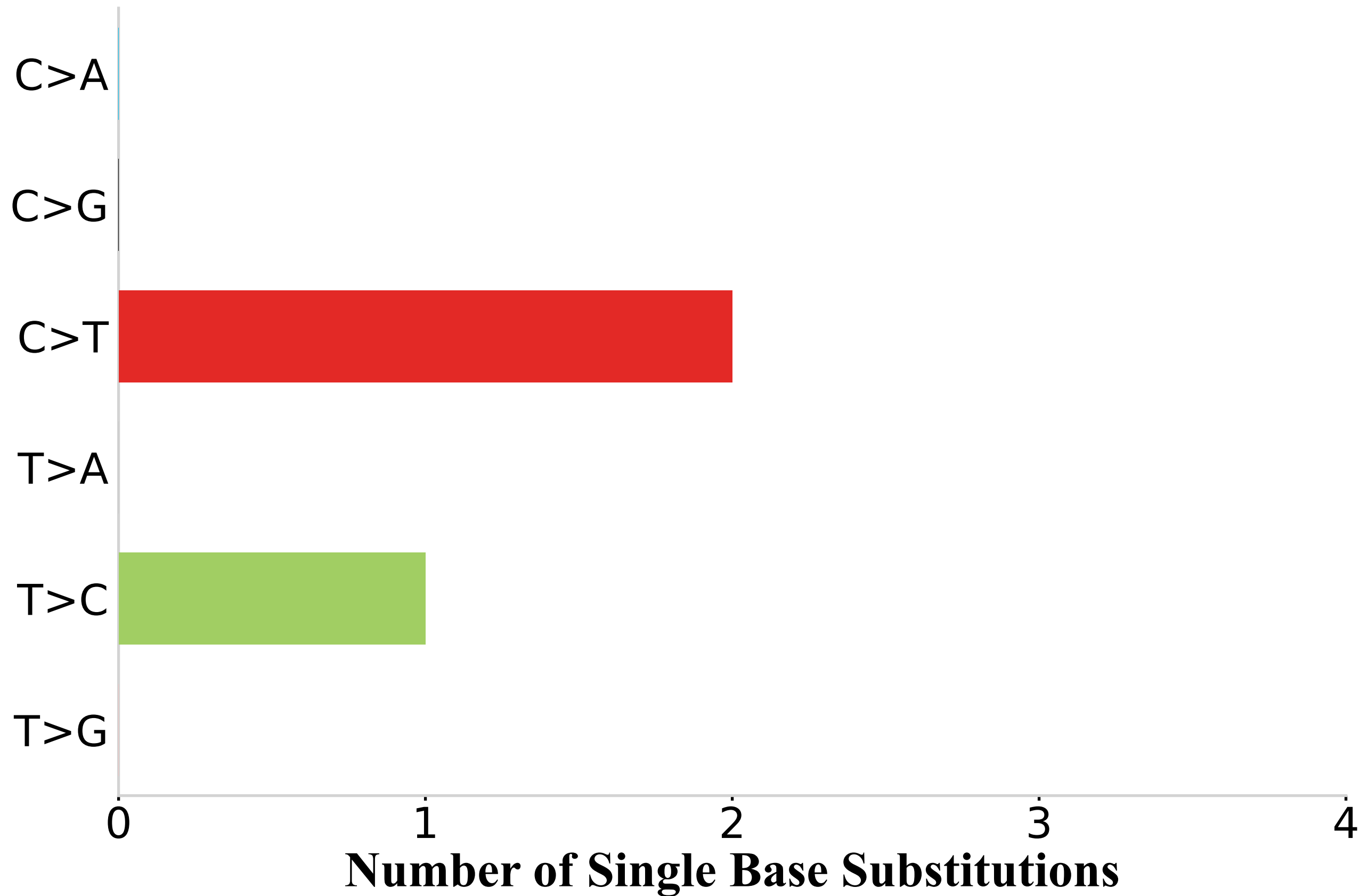
P-0005978-T01-IM5: 1 subs



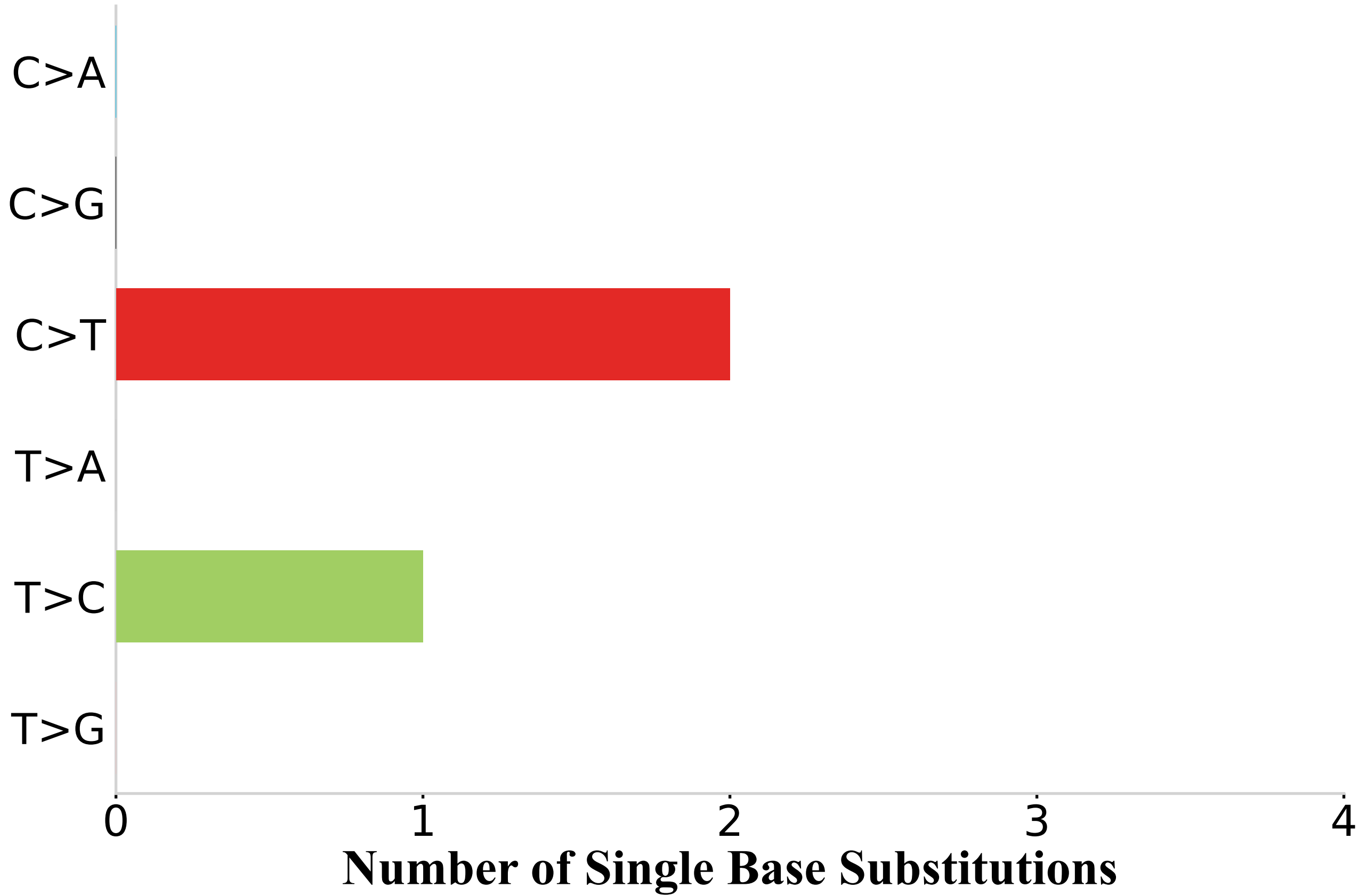
P-0005984-T01-IM5: 9 subs



P-0005991-T01-IM5: 3 subs



P-0005993-T01-IM5: 3 subs



P-0006010-T02-IM6: 9 subs

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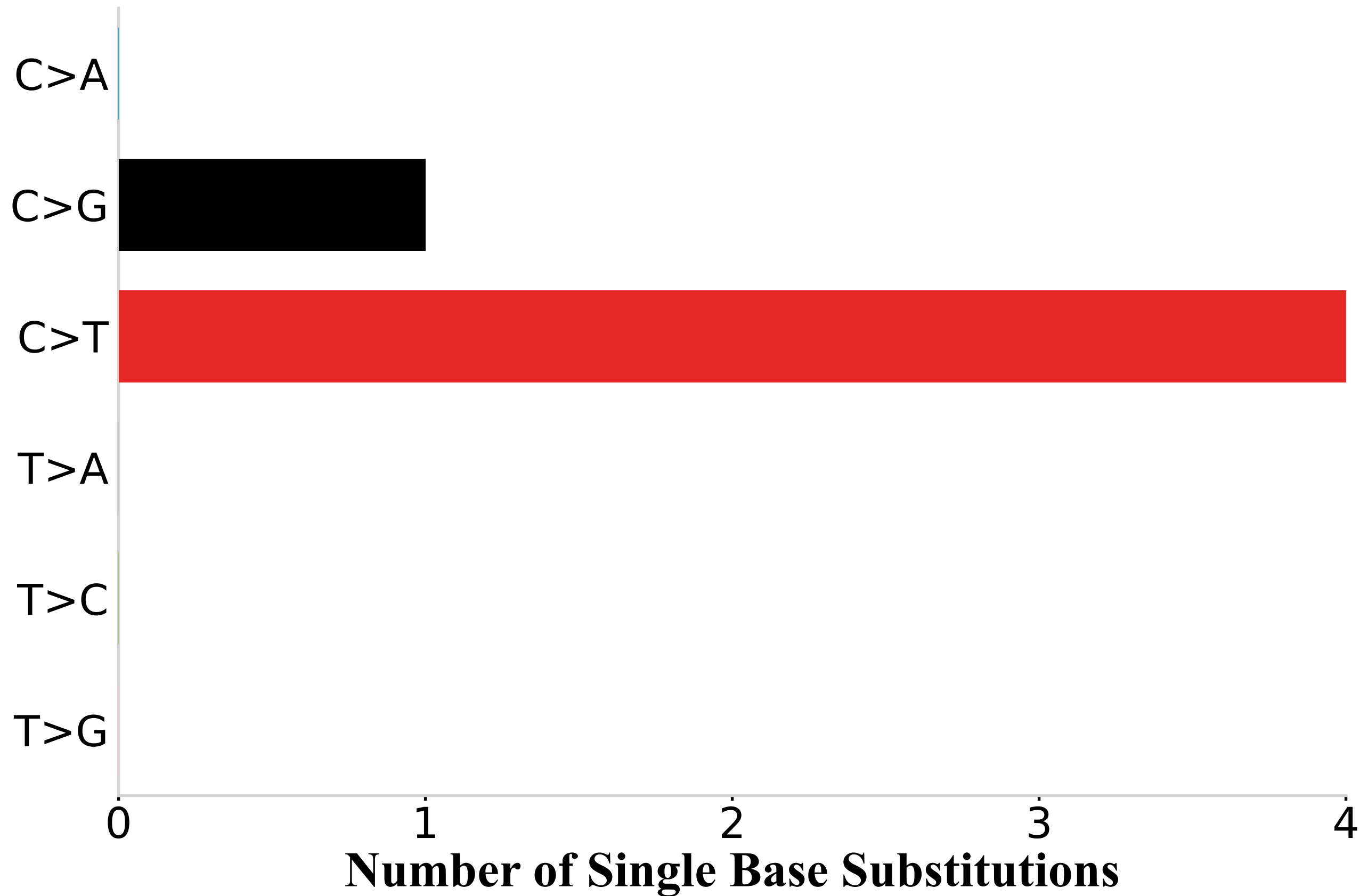
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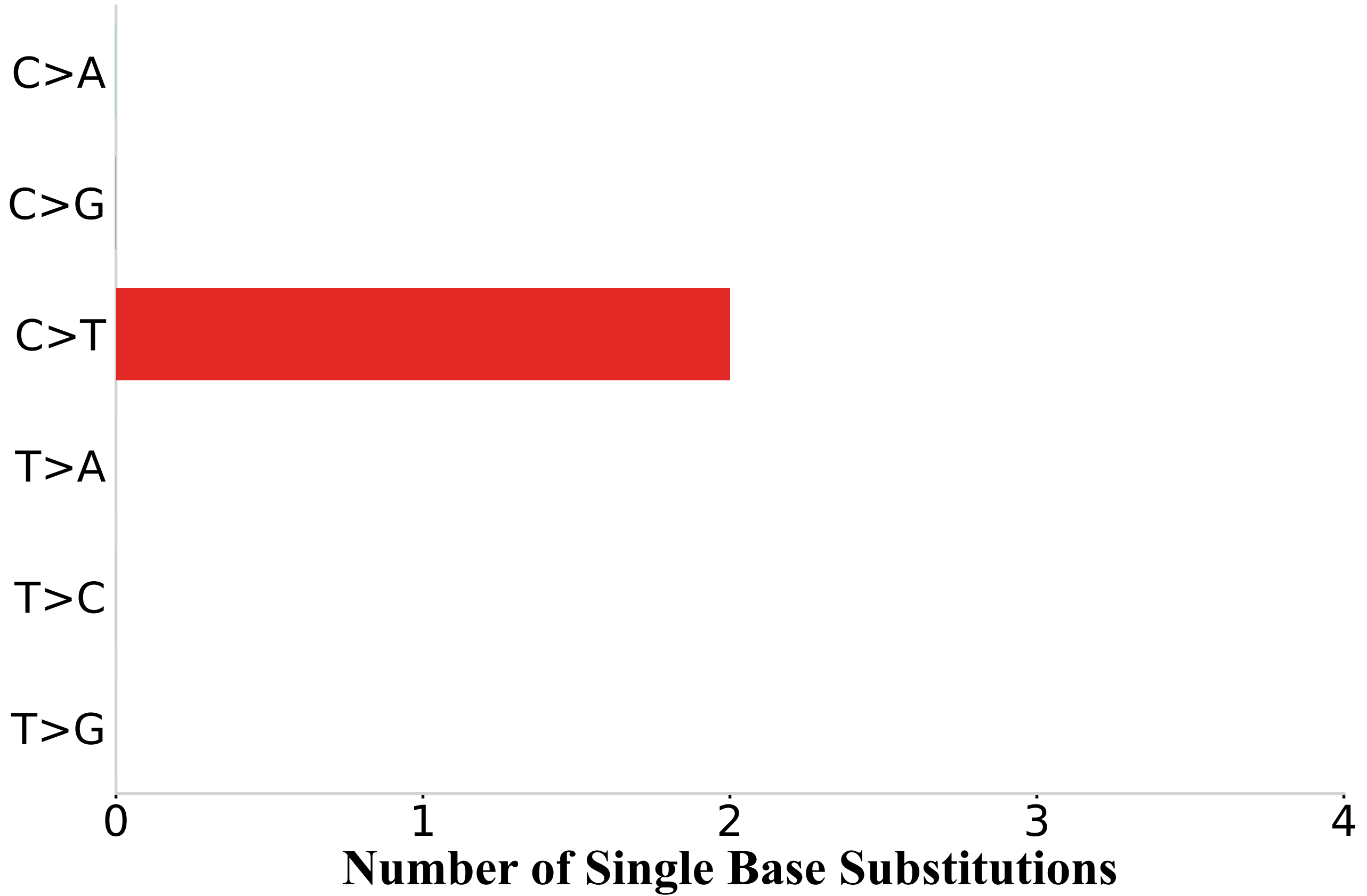
Number of Single Base Substitutions



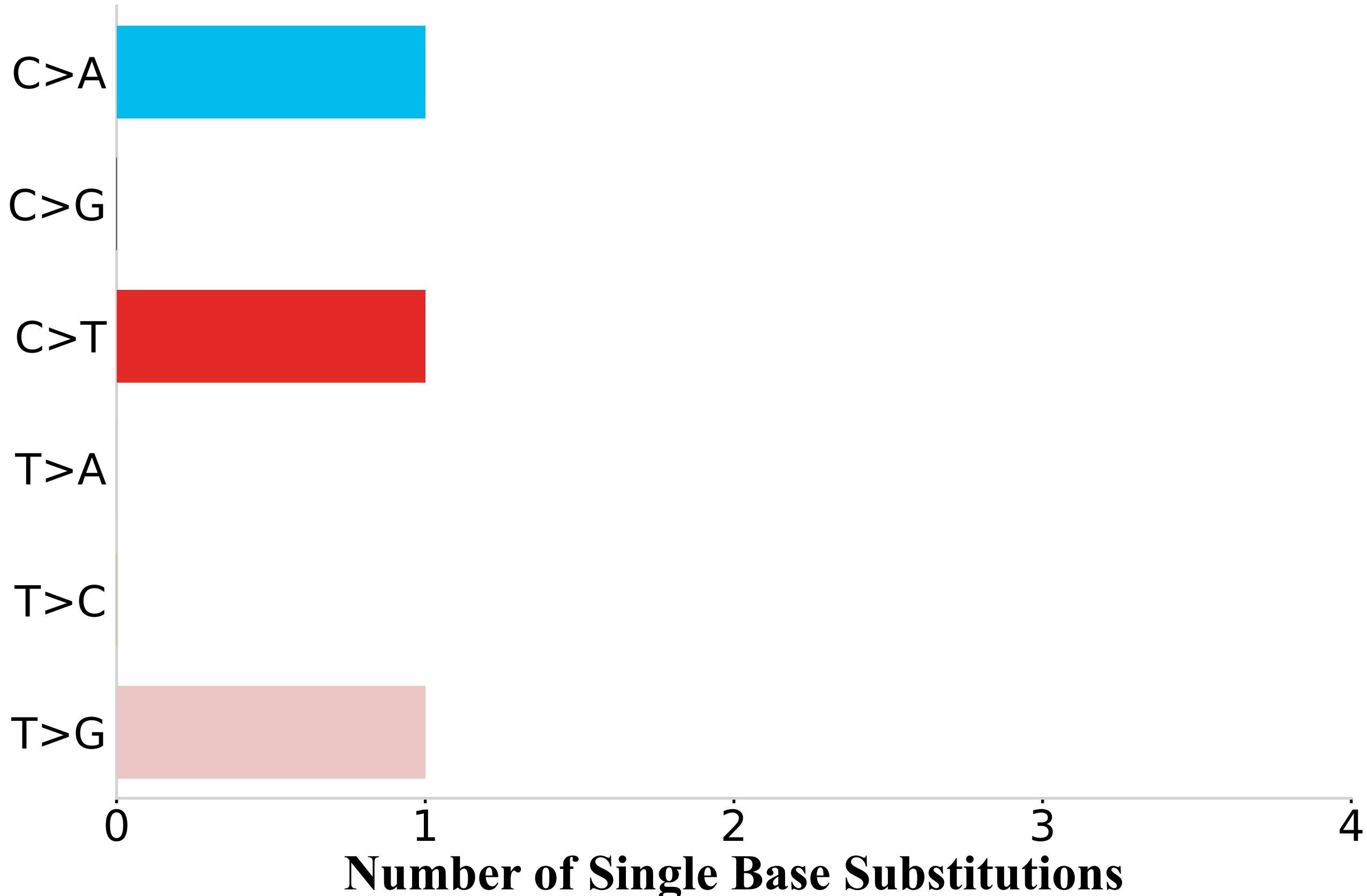
P-0006078-T01-IM5: 5 subs



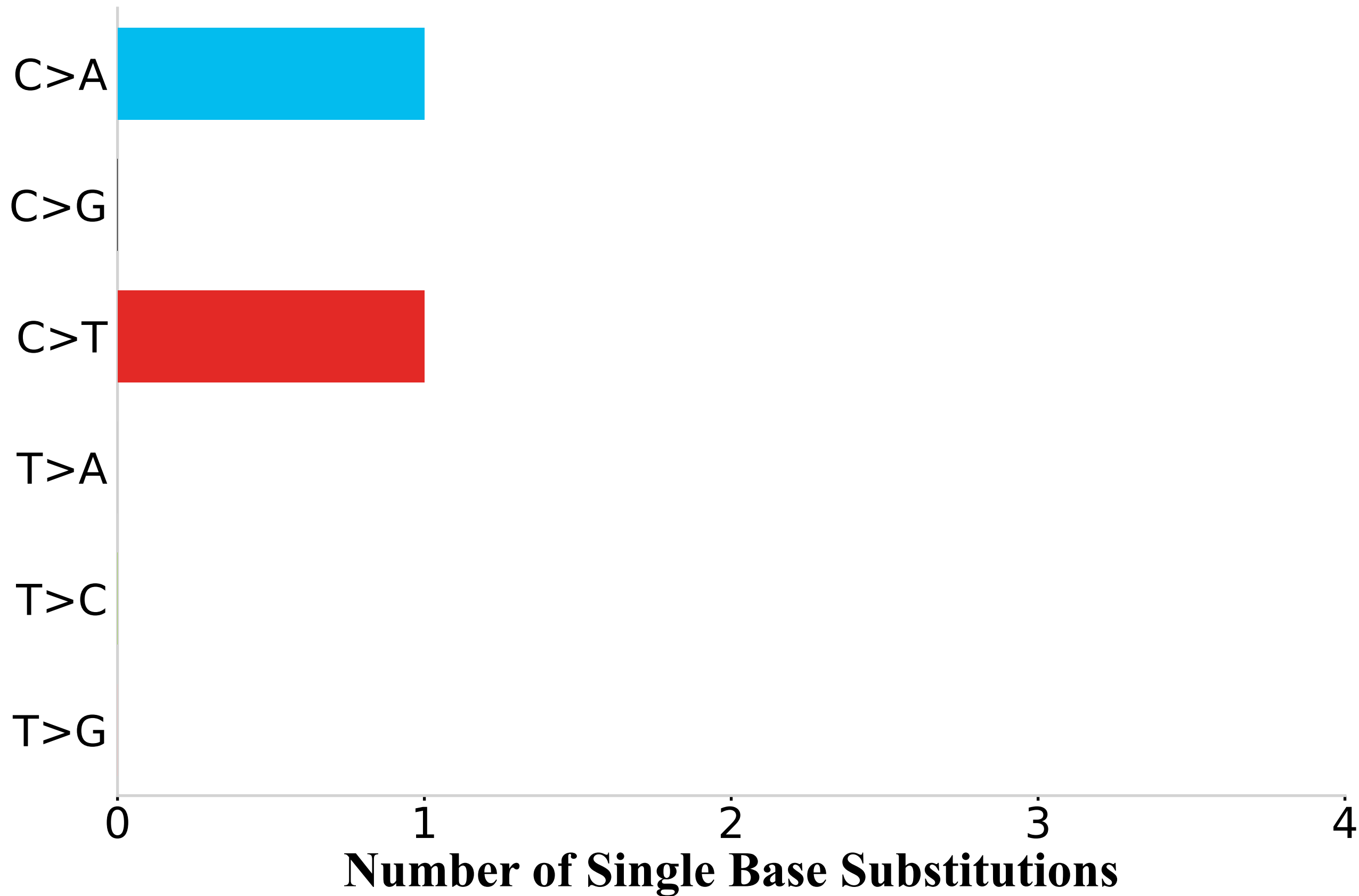
P-0006112-T02-IM5: 2 subs



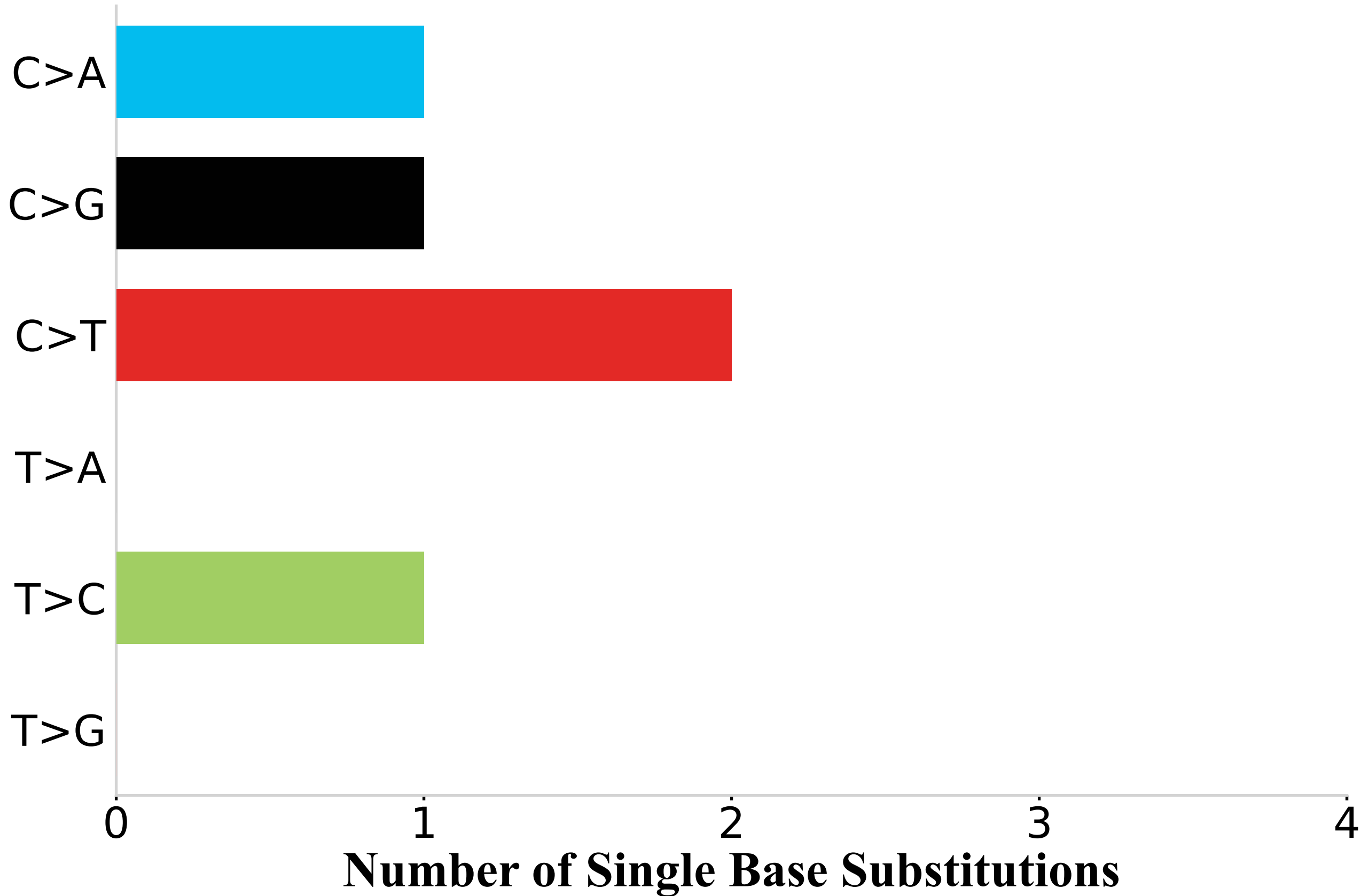
P-0006148-T01-IM5: 3 subs



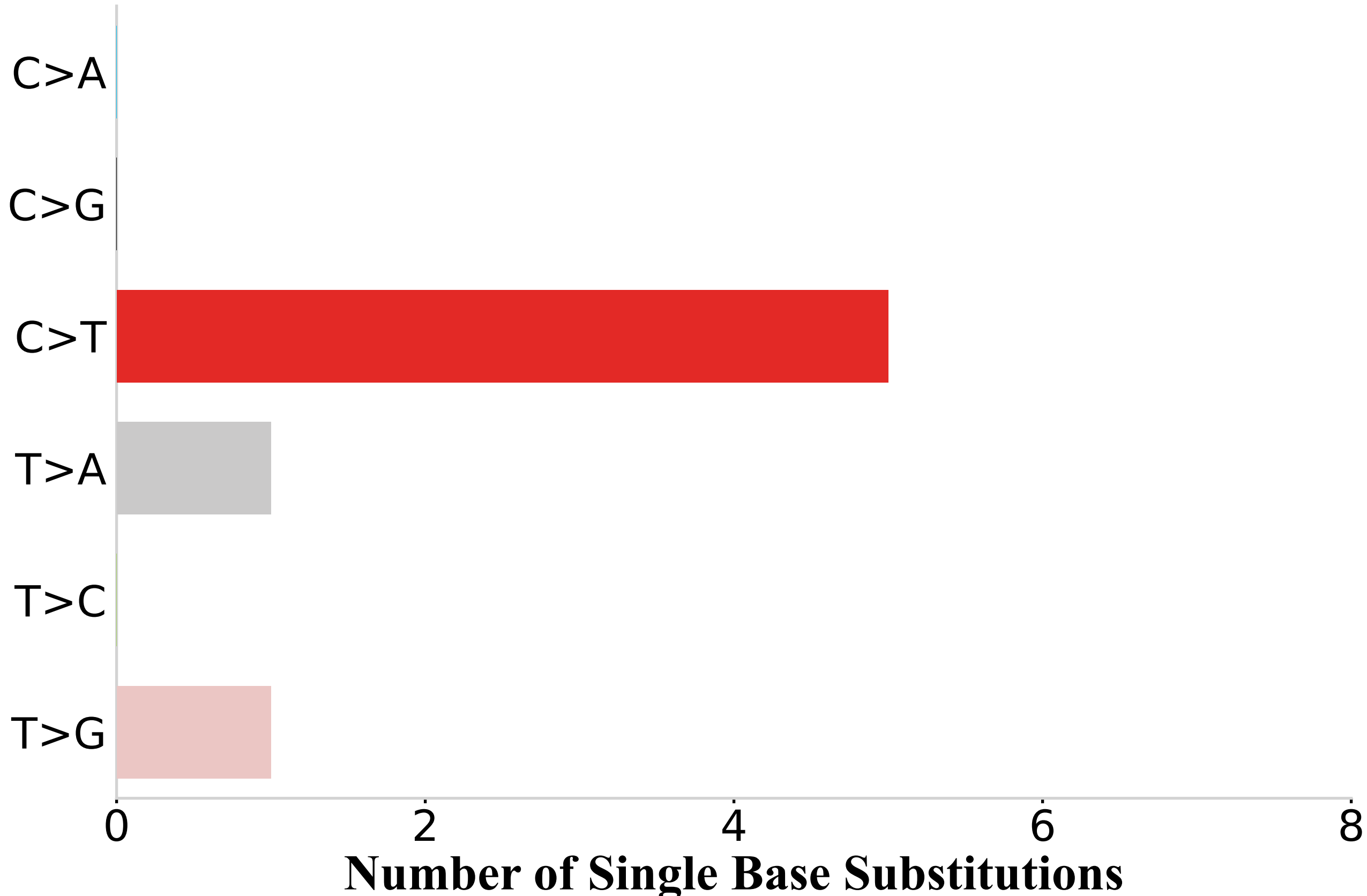
P-0006333-T01-IM5: 2 subs



P-0006357-T01-IM5: 5 subs



P-0006448-T01-IM5: 7 subs



P-0006495-T01-IM5: 2 subs

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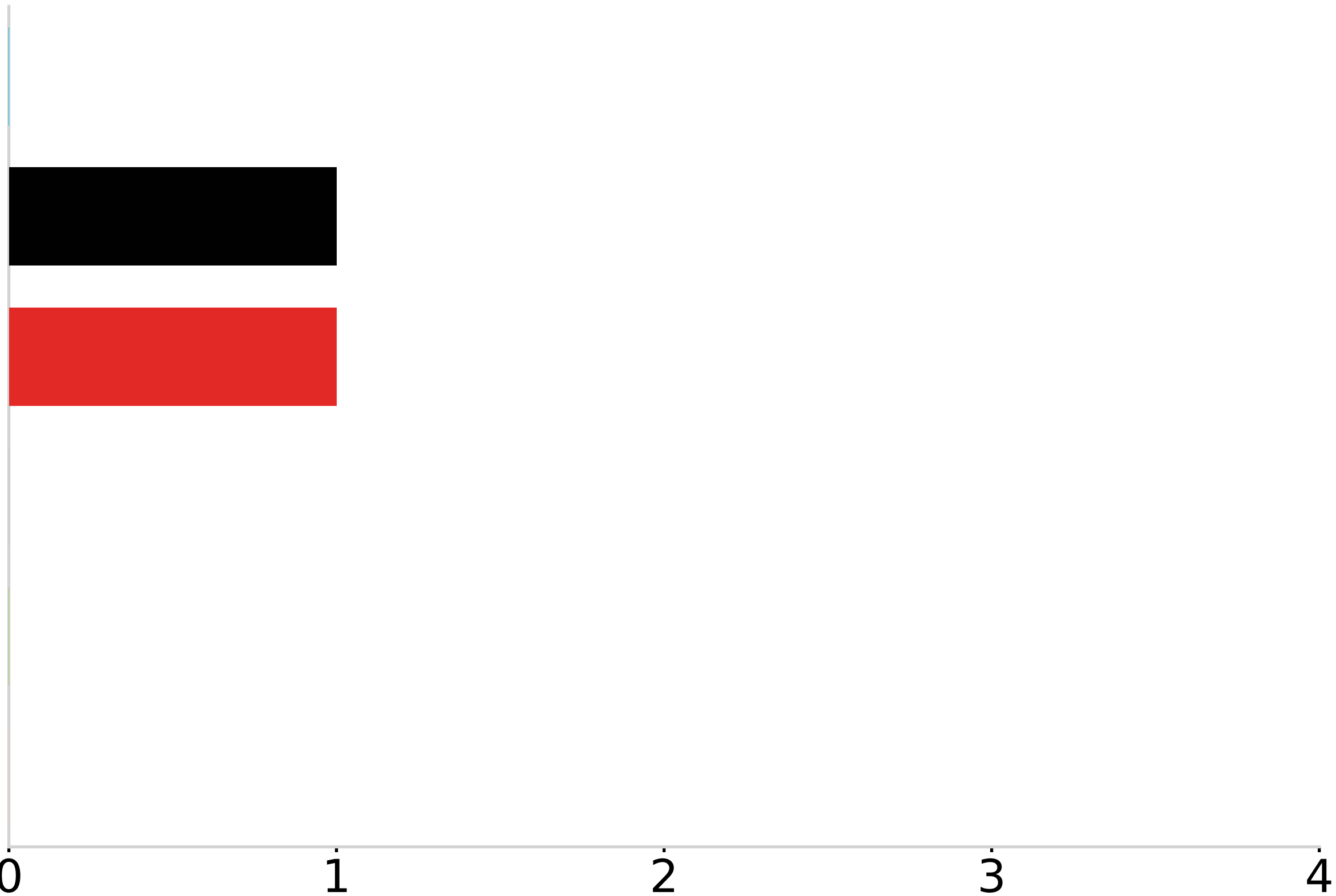
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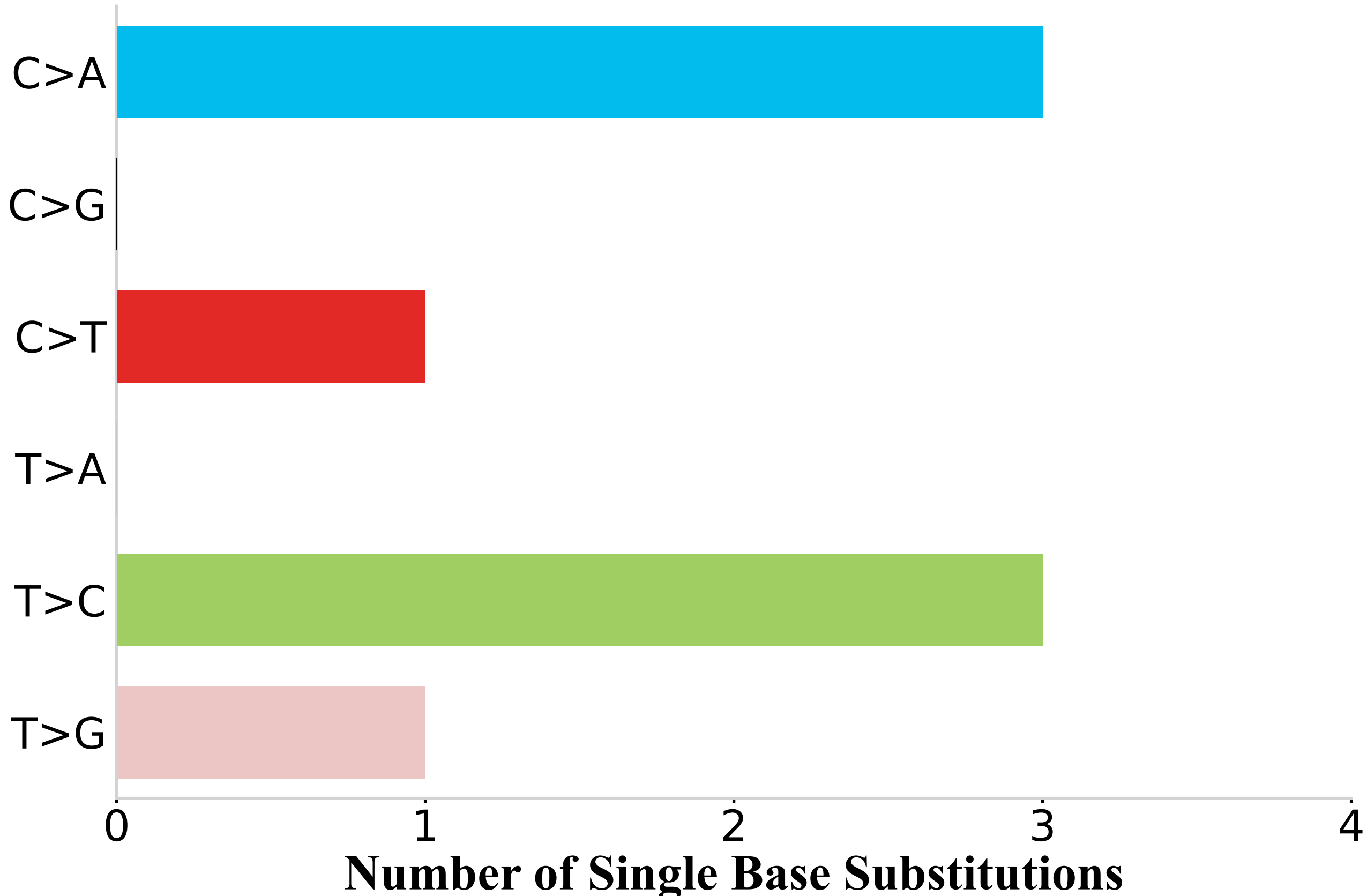
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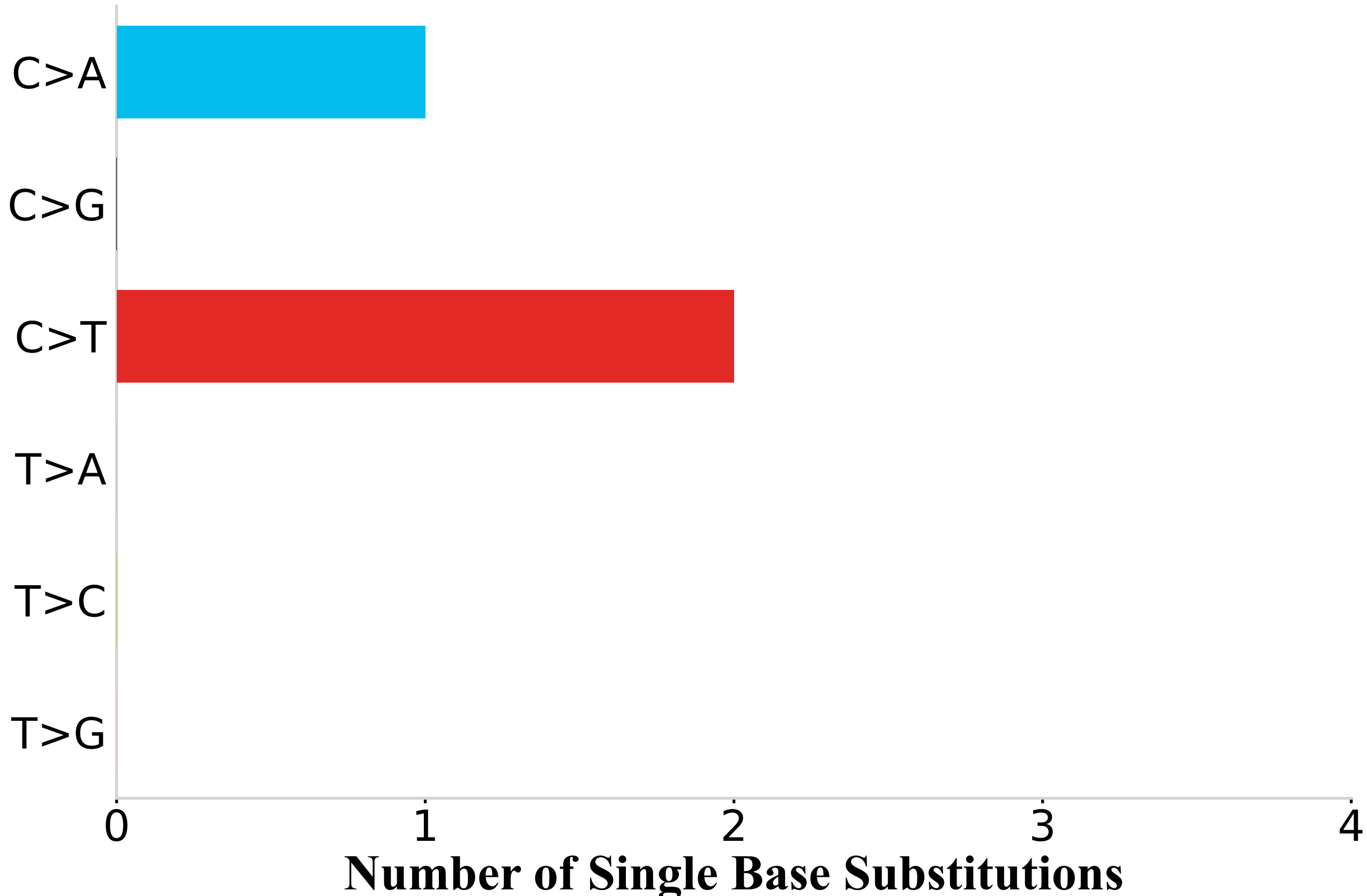
Number of Single Base Substitutions



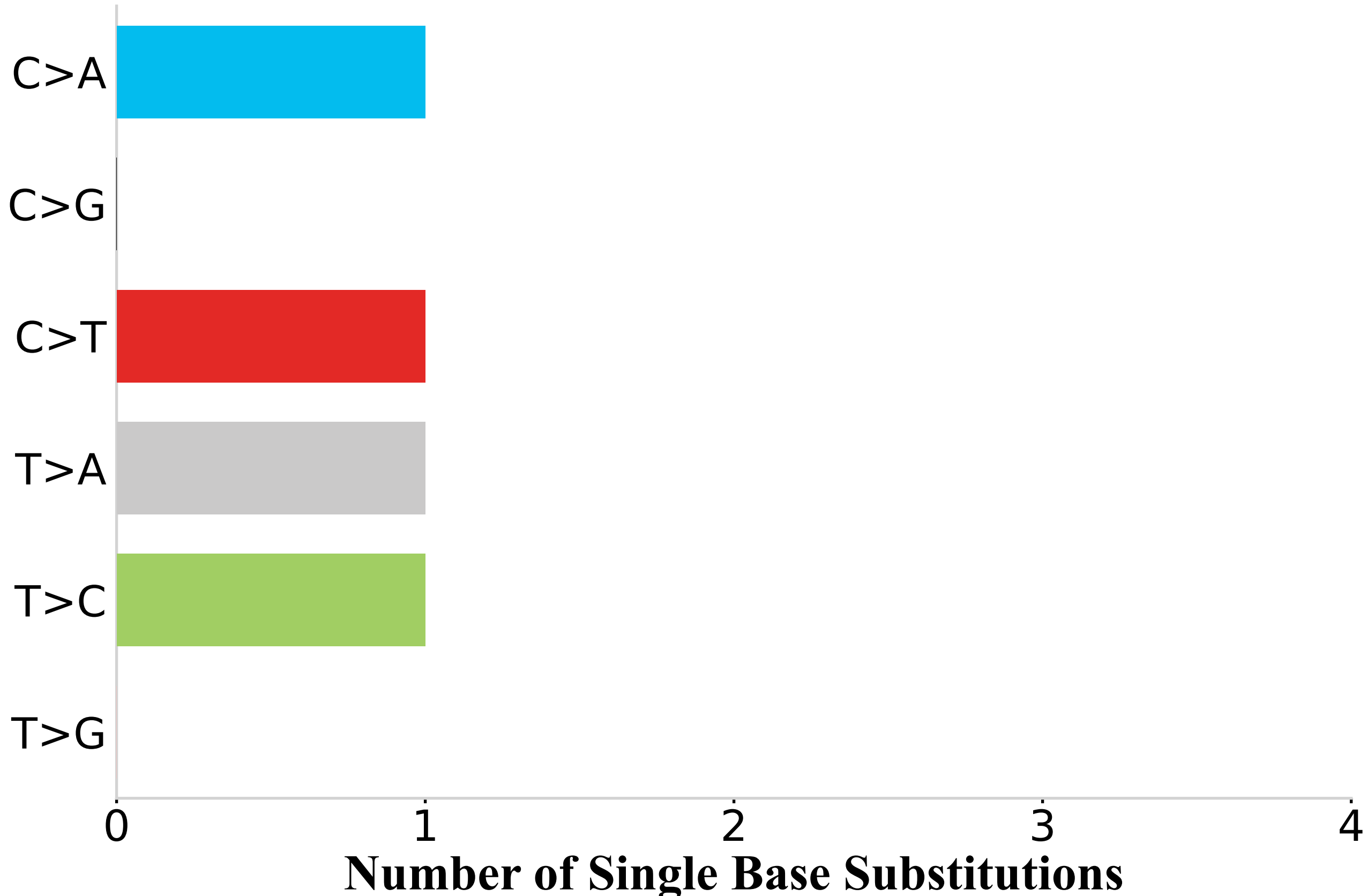
P-0006519-T01-IM5: 8 subs



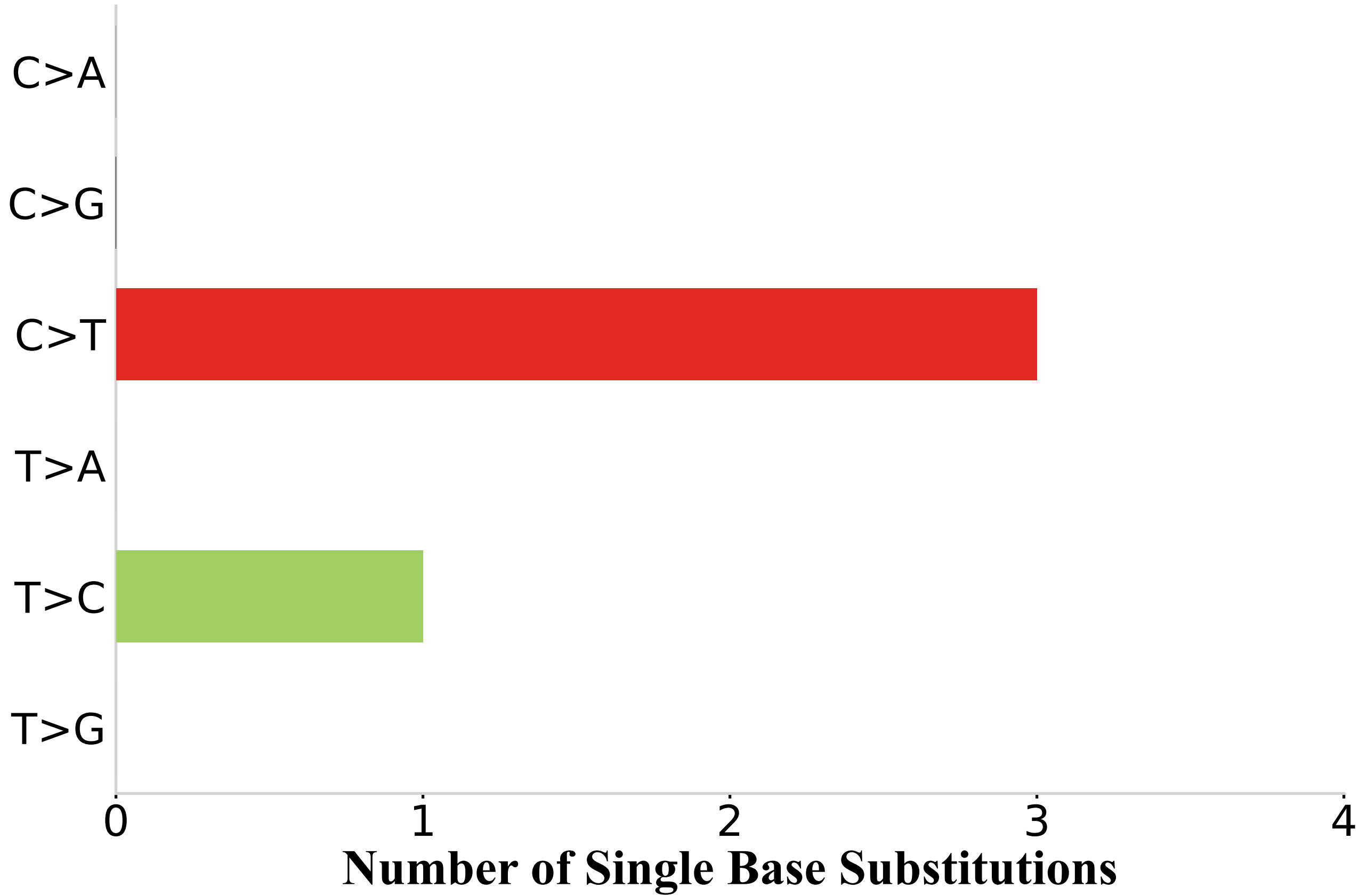
P-0006615-T01-IM5: 3 subs



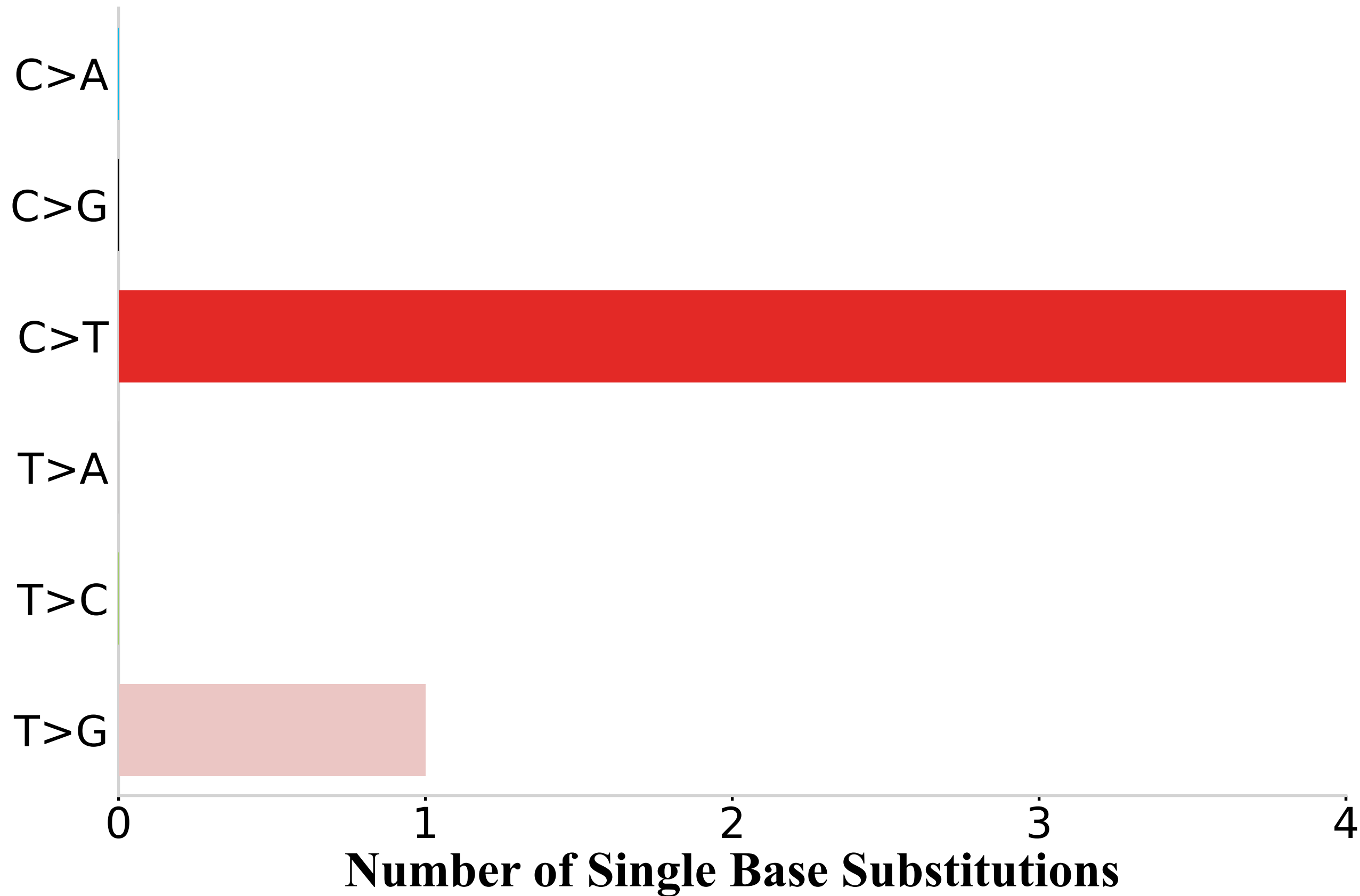
P-0006722-T01-IM5: 4 subs



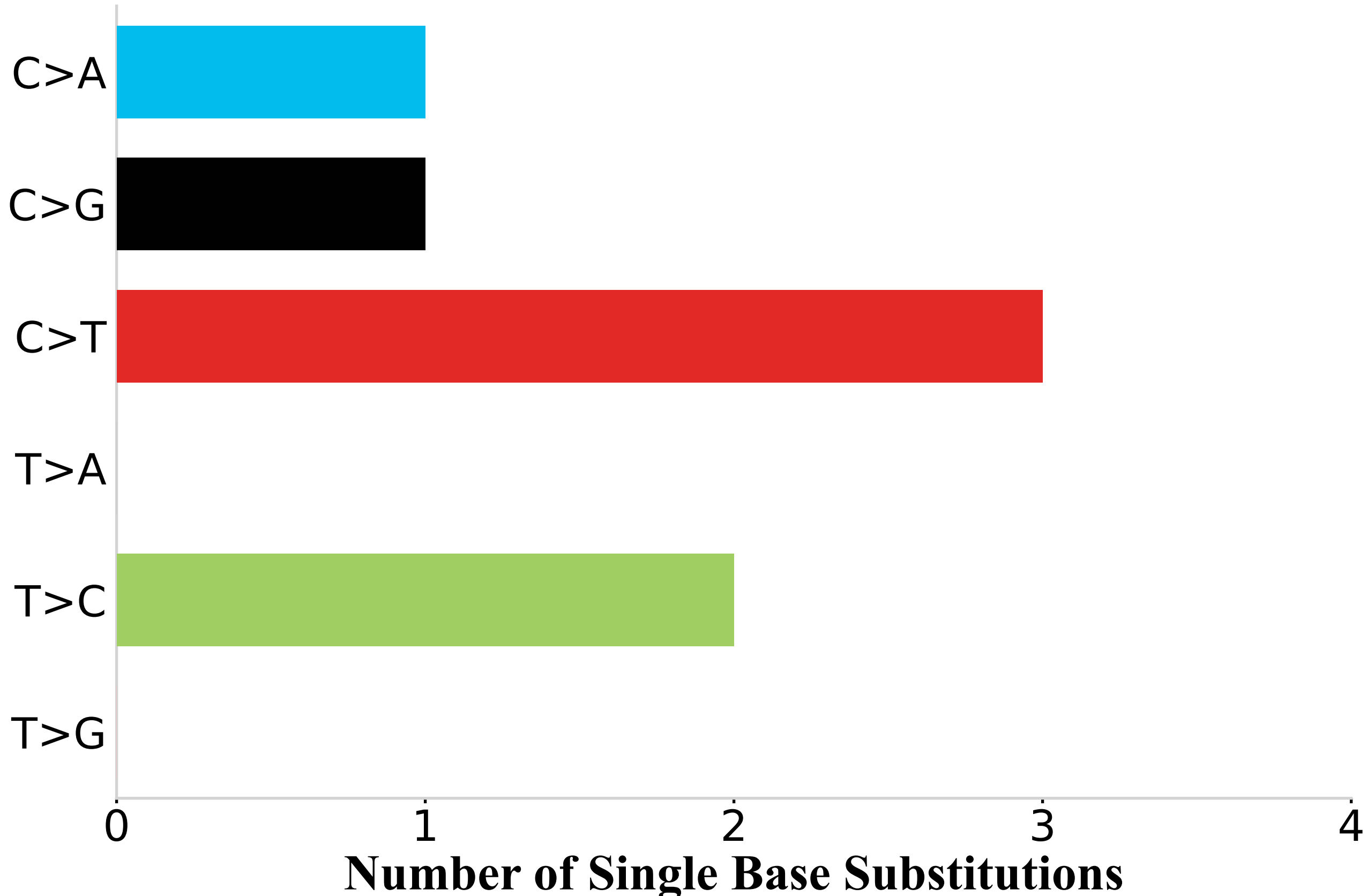
P-0006732-T01-IM5: 4 subs



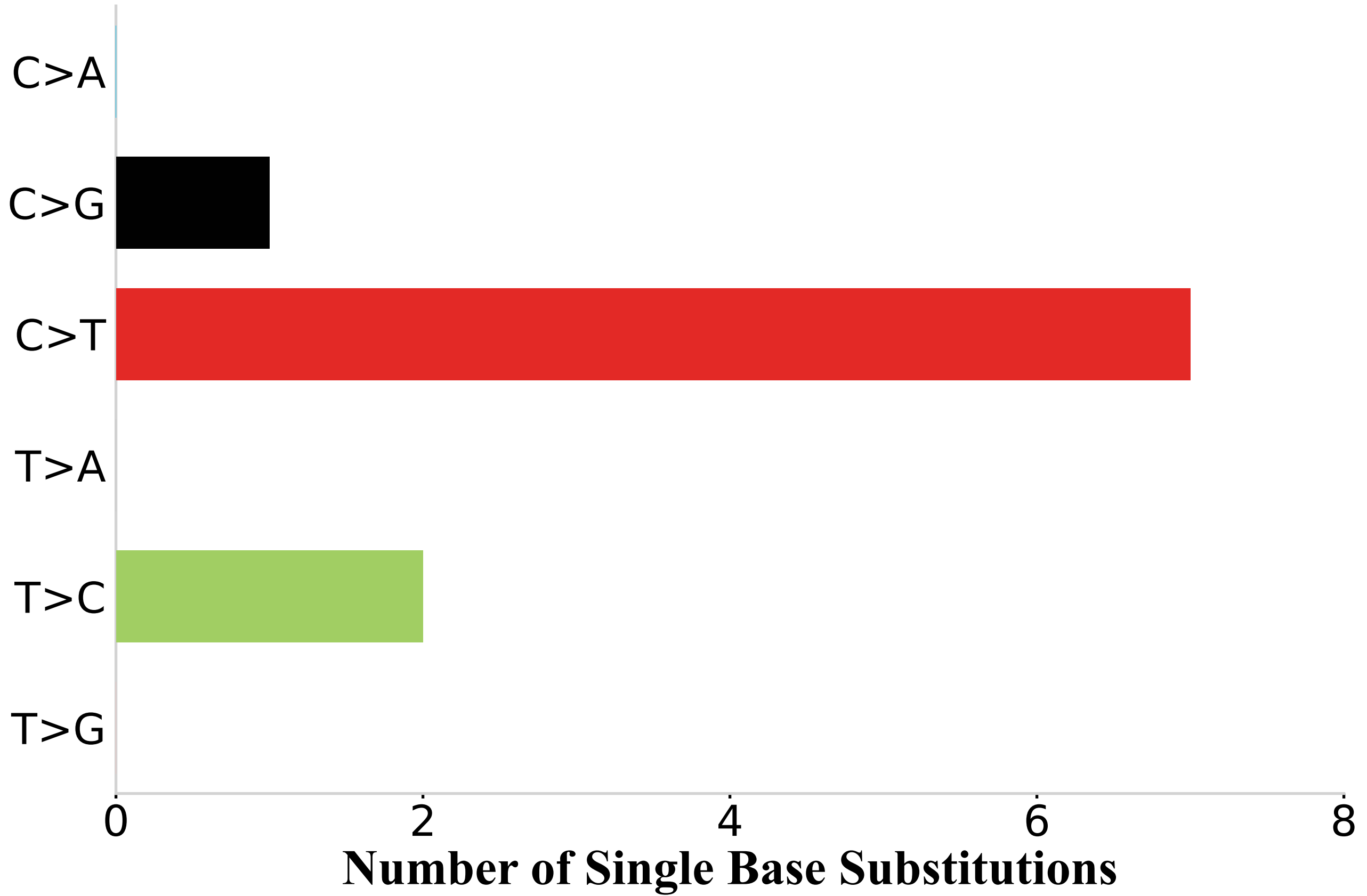
P-0006836-T01-IM5: 5 subs



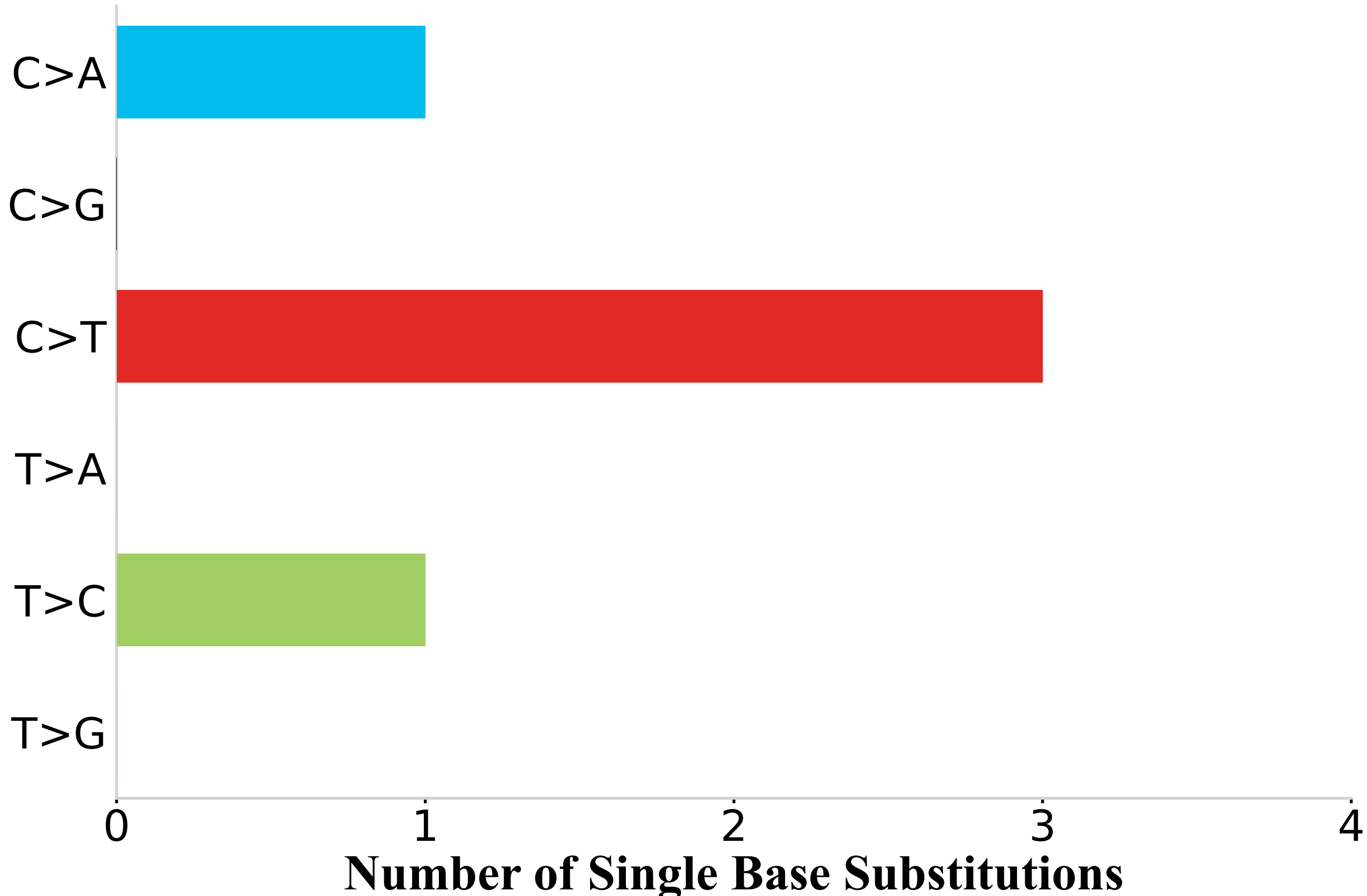
P-0006838-T01-IM5: 7 subs



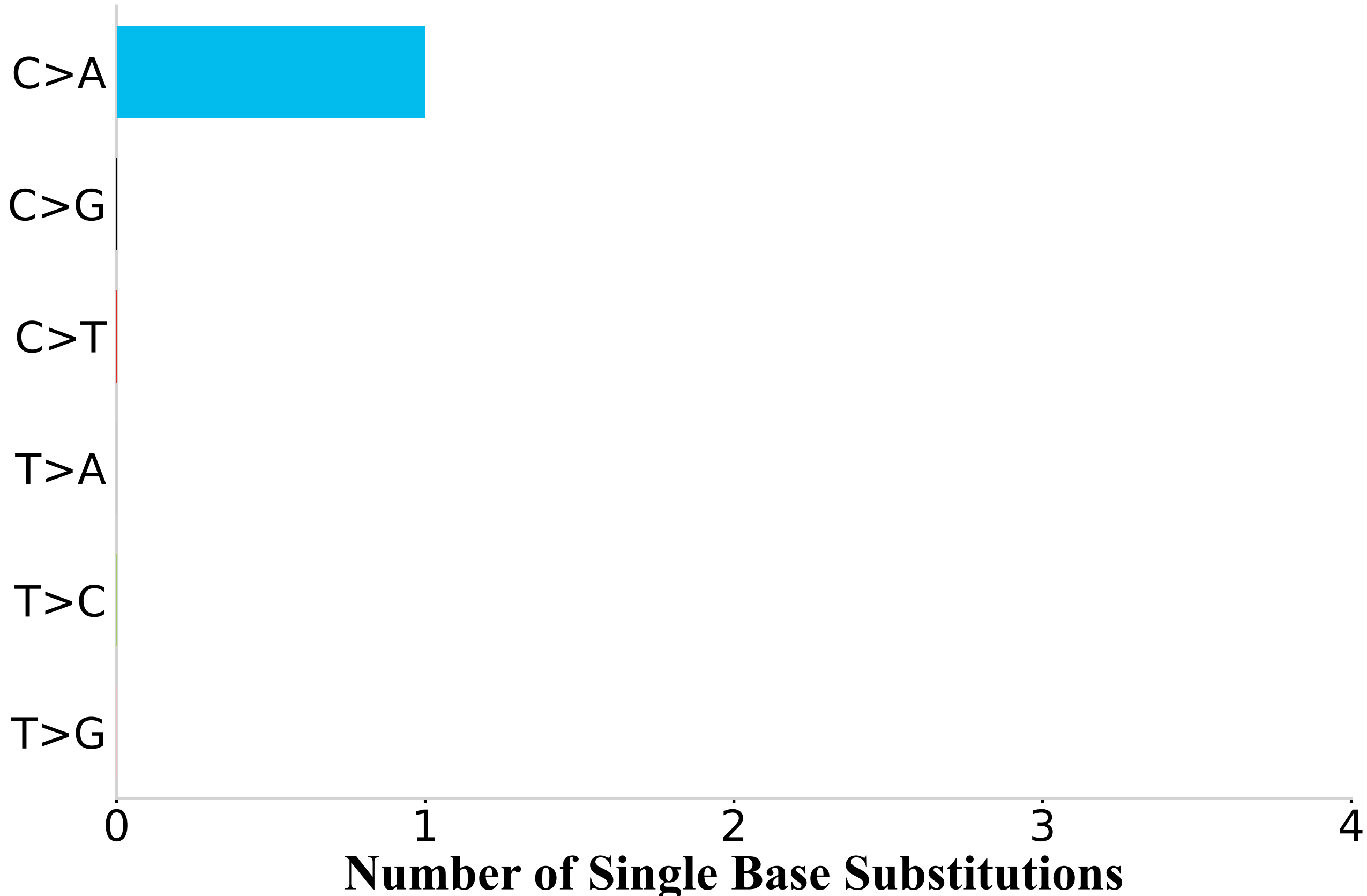
P-0006877-T01-IM5: 10 subs



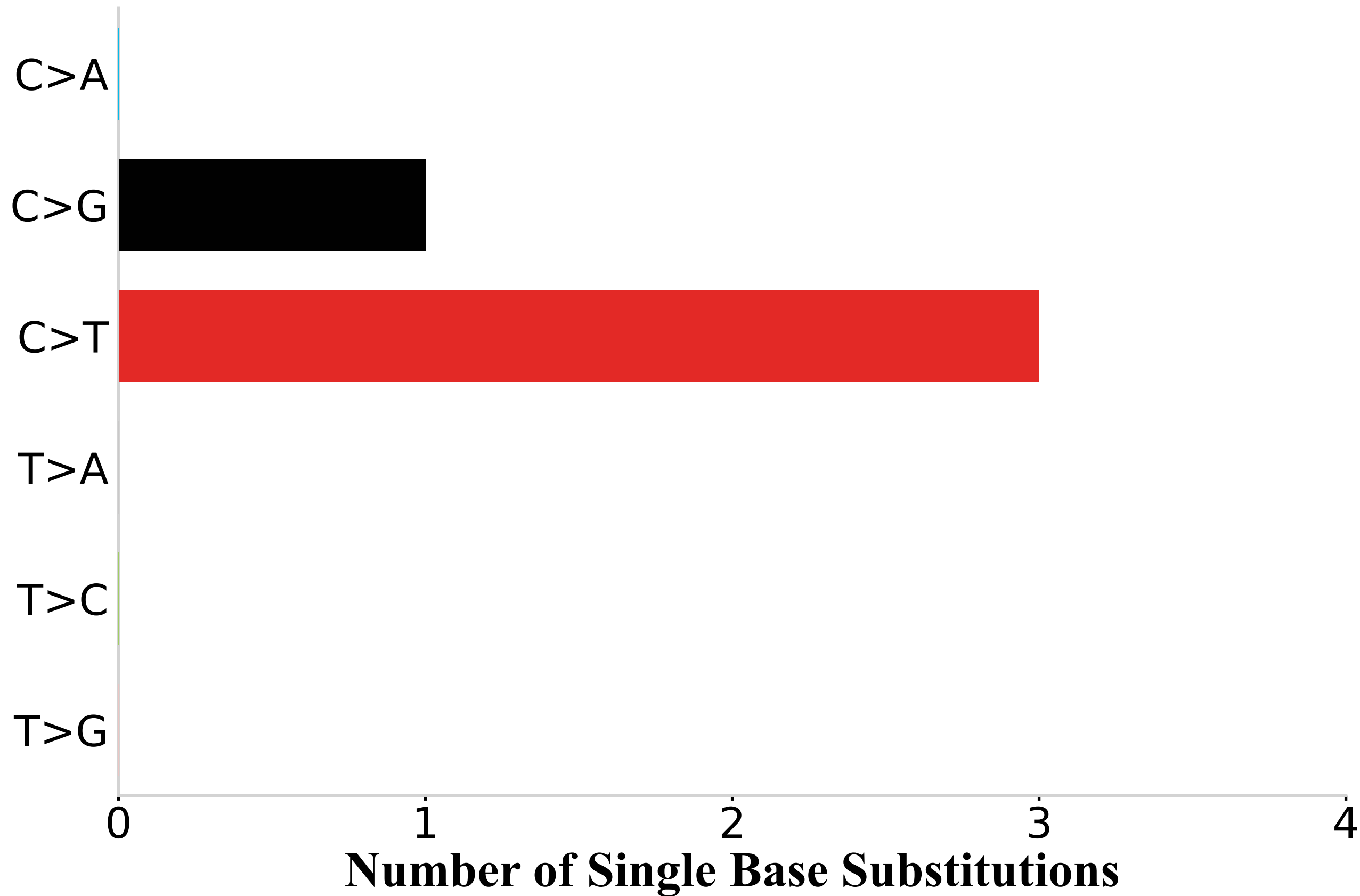
P-0006880-T01-IM5: 5 subs



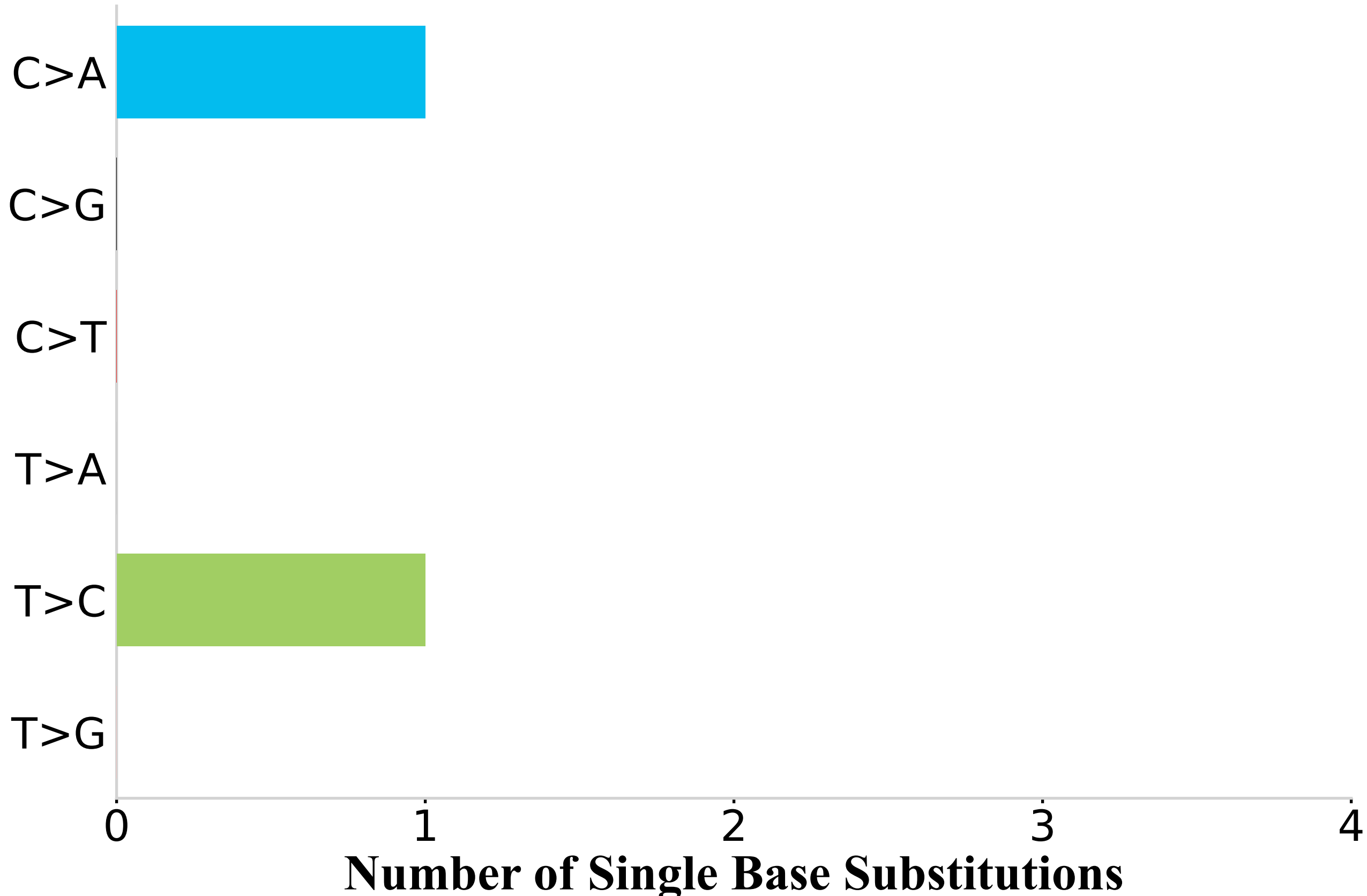
P-0006919-T01-IM5: 1 subs



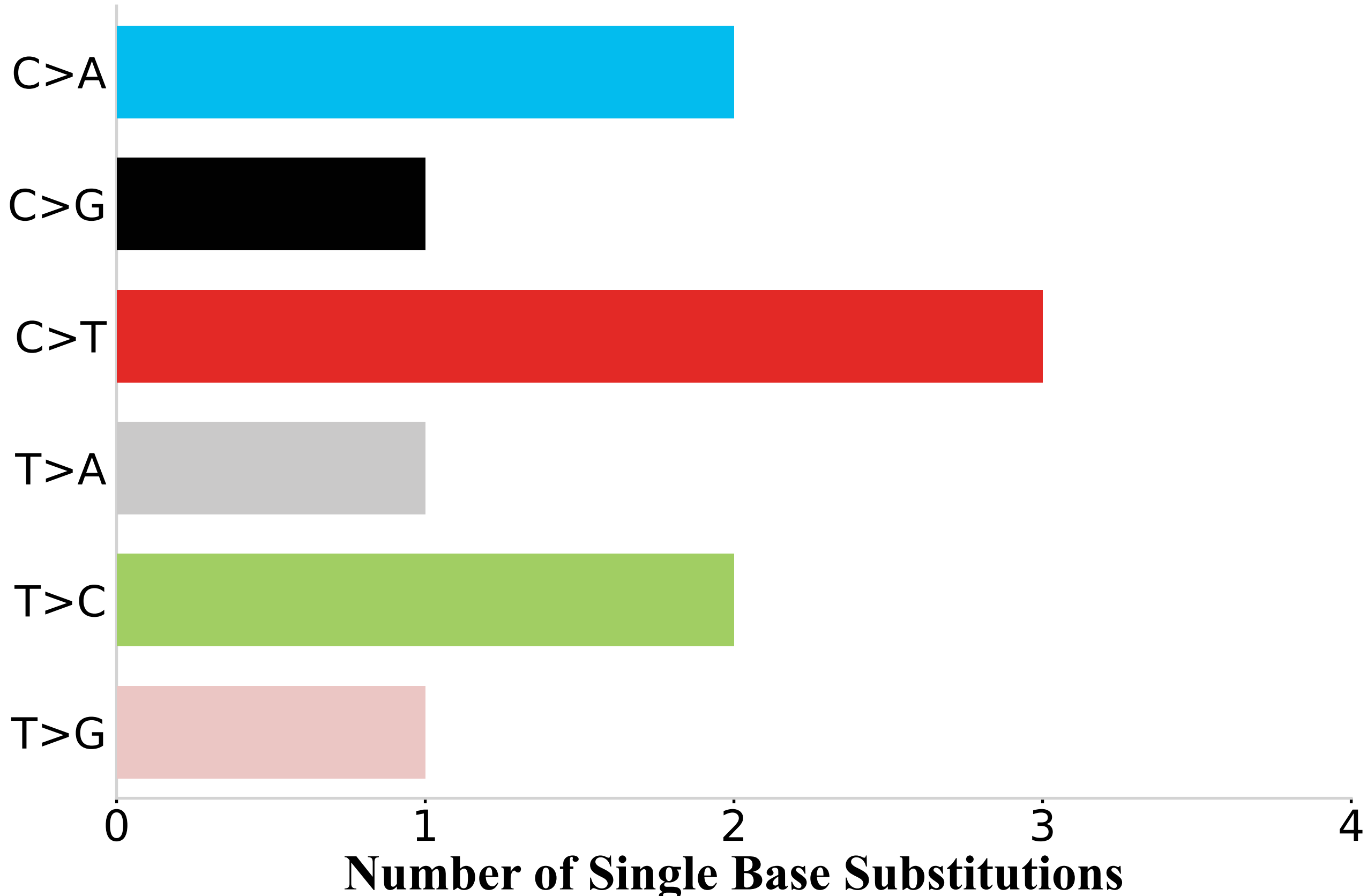
P-0007164-T01-IM5: 4 subs



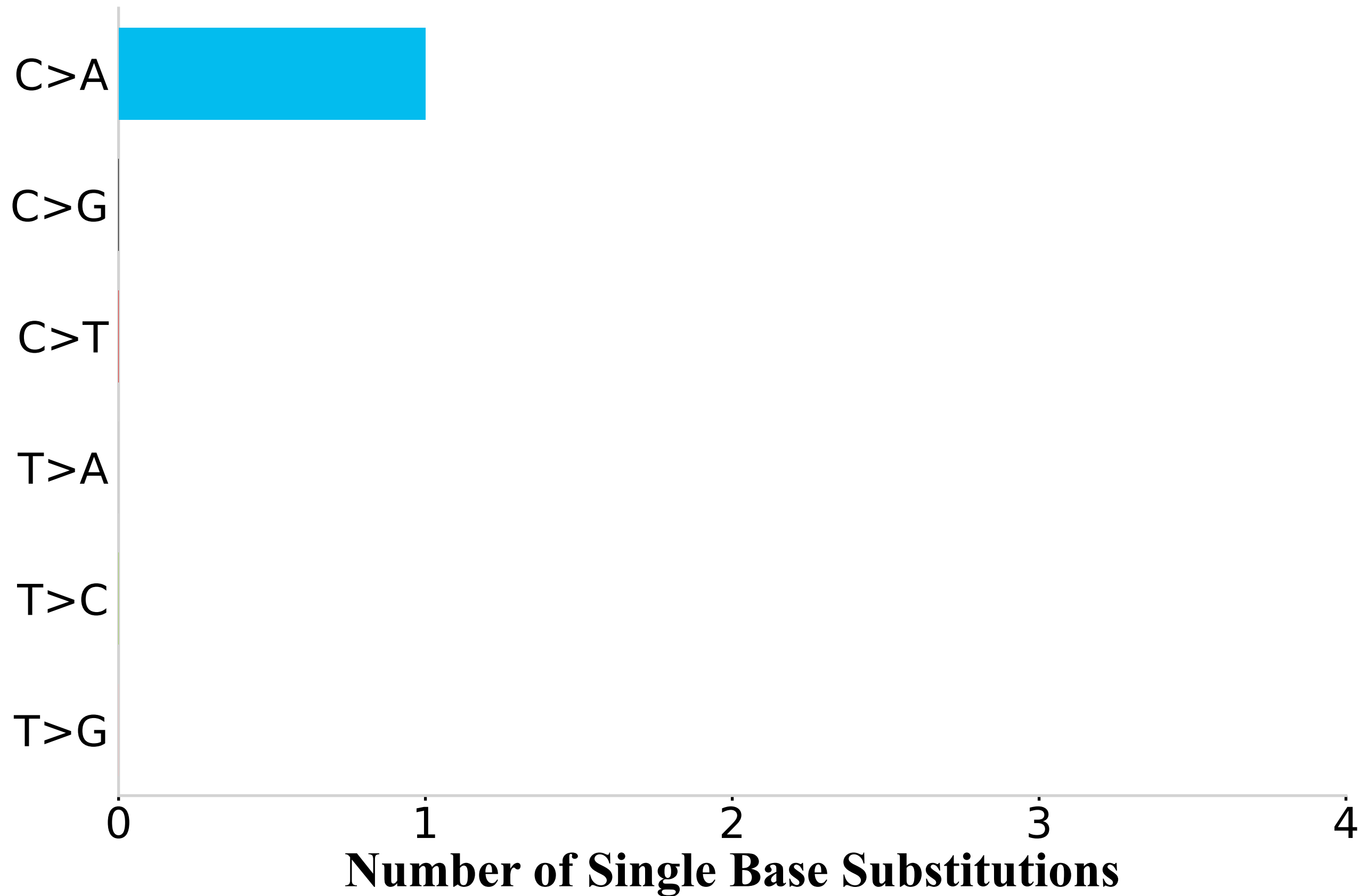
P-0007227-T01-IM5: 2 subs



P-0007572-T01-IM5: 10 subs



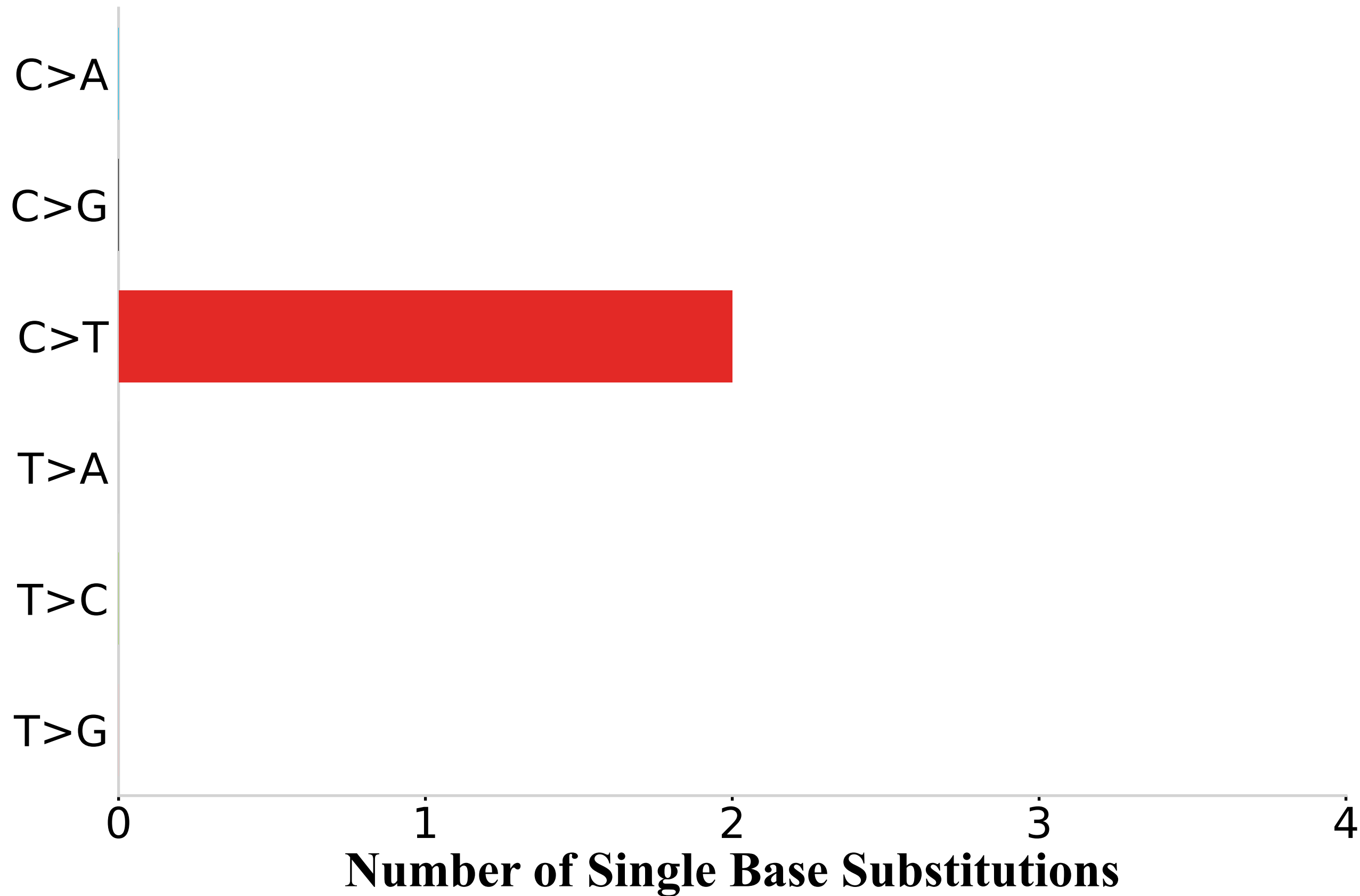
P-0007653-T01-IM5: 1 subs



P-0007687-T02-IM6: 1 subs



P-0007748-T01-IM5: 2 subs



P-0007845-T01-IM5: 2 subs

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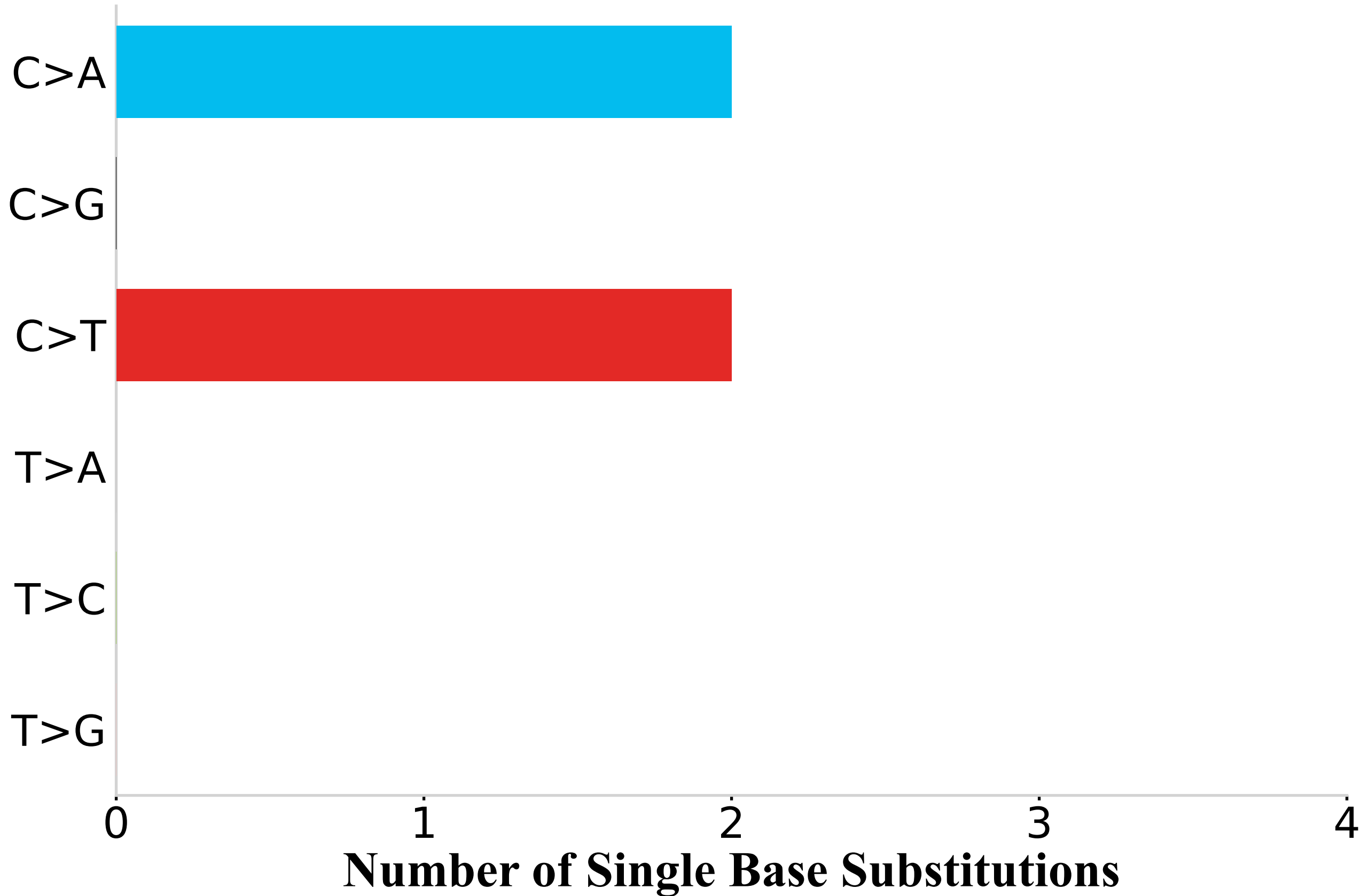
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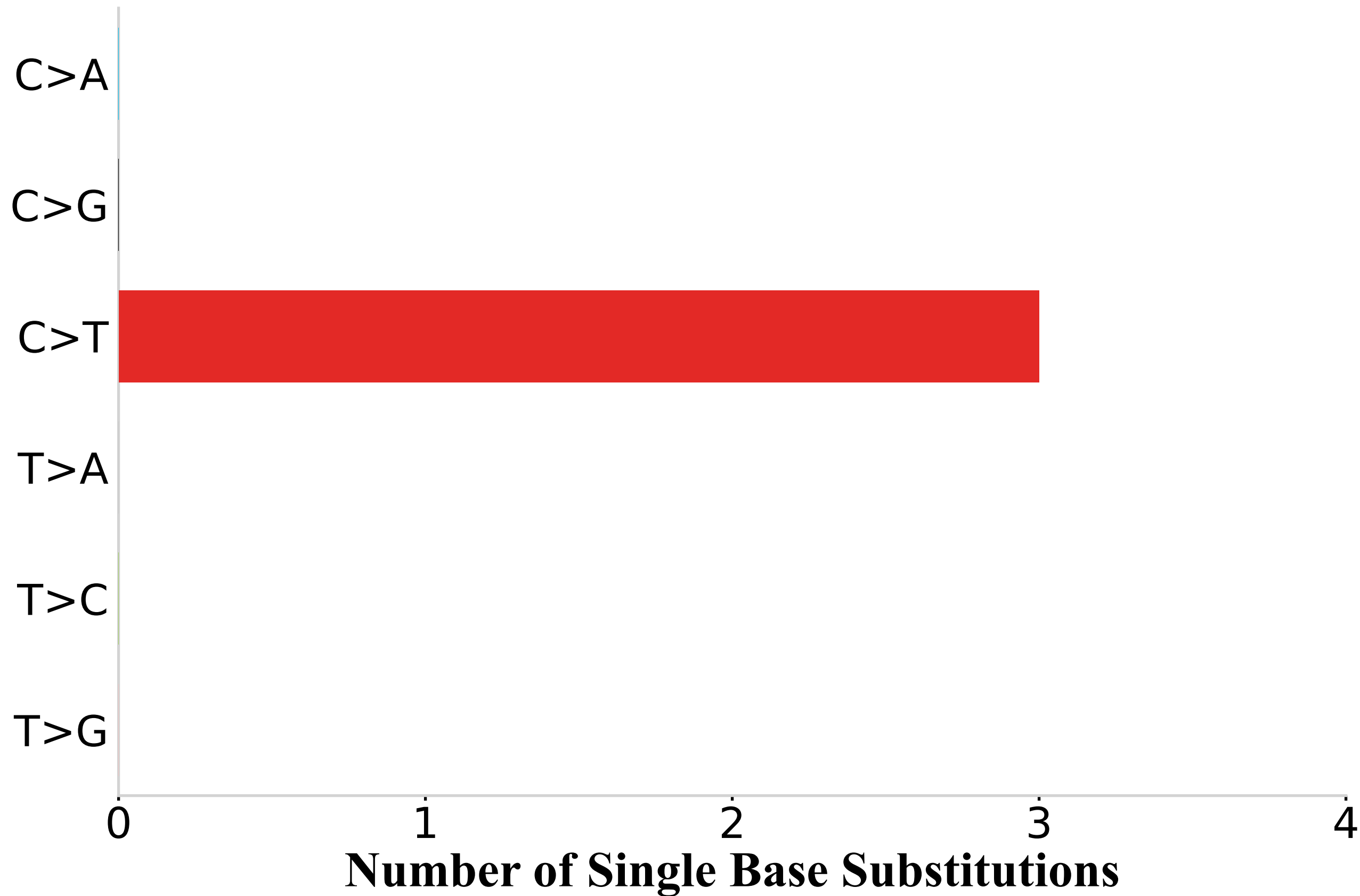
Number of Single Base Substitutions



P-0007895-T02-IM6: 4 subs



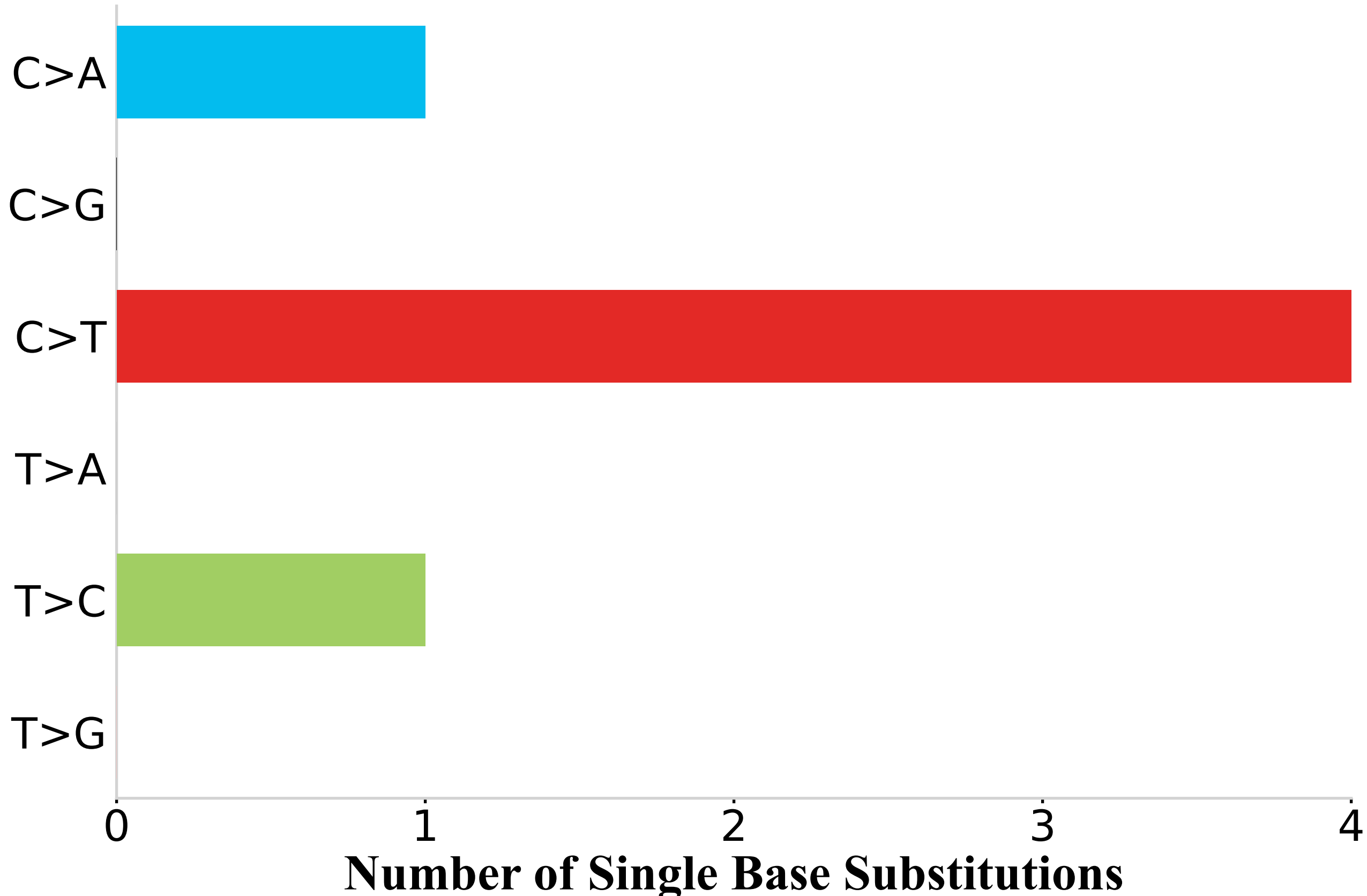
P-0007903-T01-IM5: 3 subs



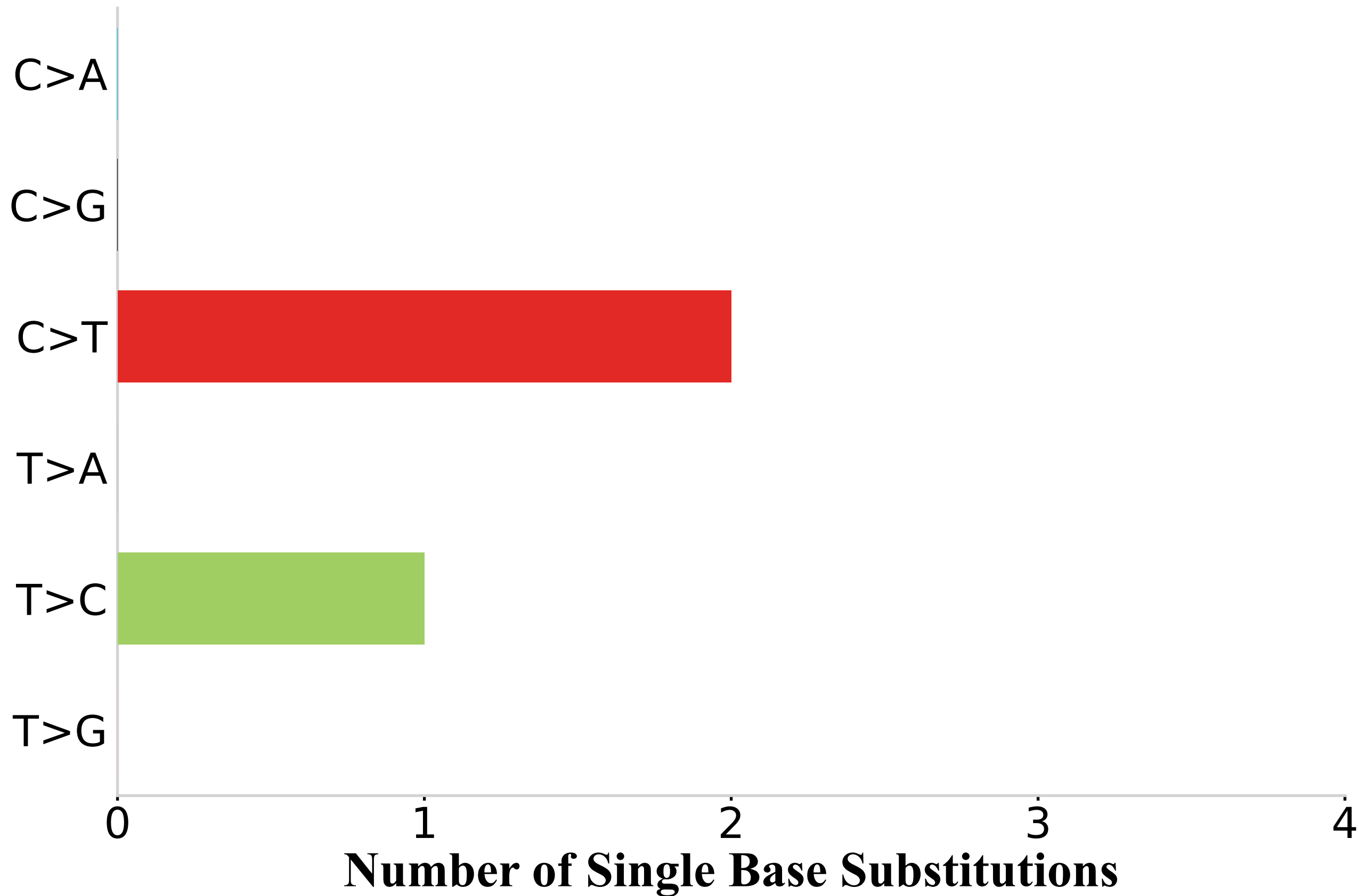
P-0008004-T01-IM5: 1 subs



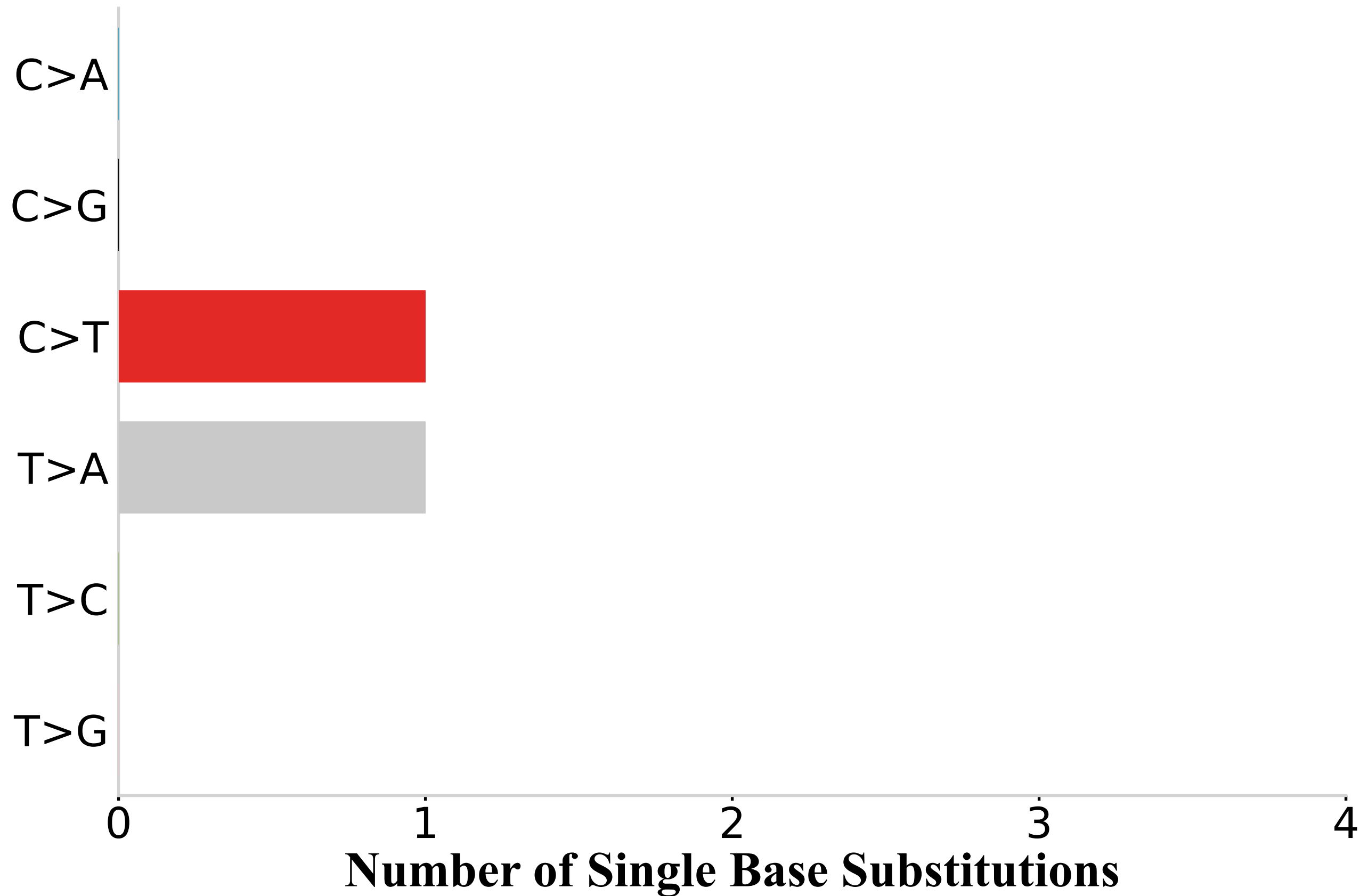
P-0008271-T01-IM5: 6 subs



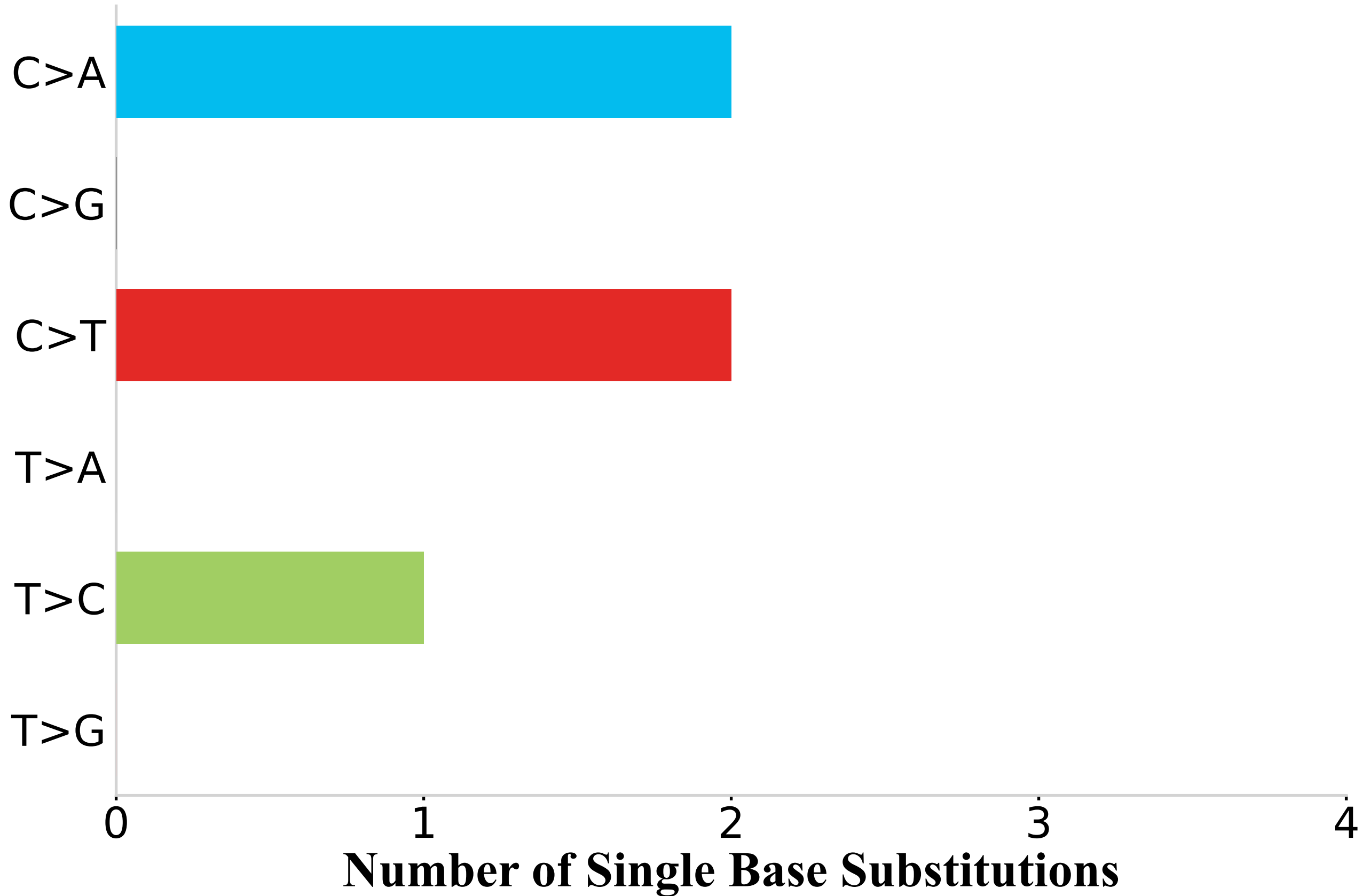
P-0008305-T01-IM5: 3 subs



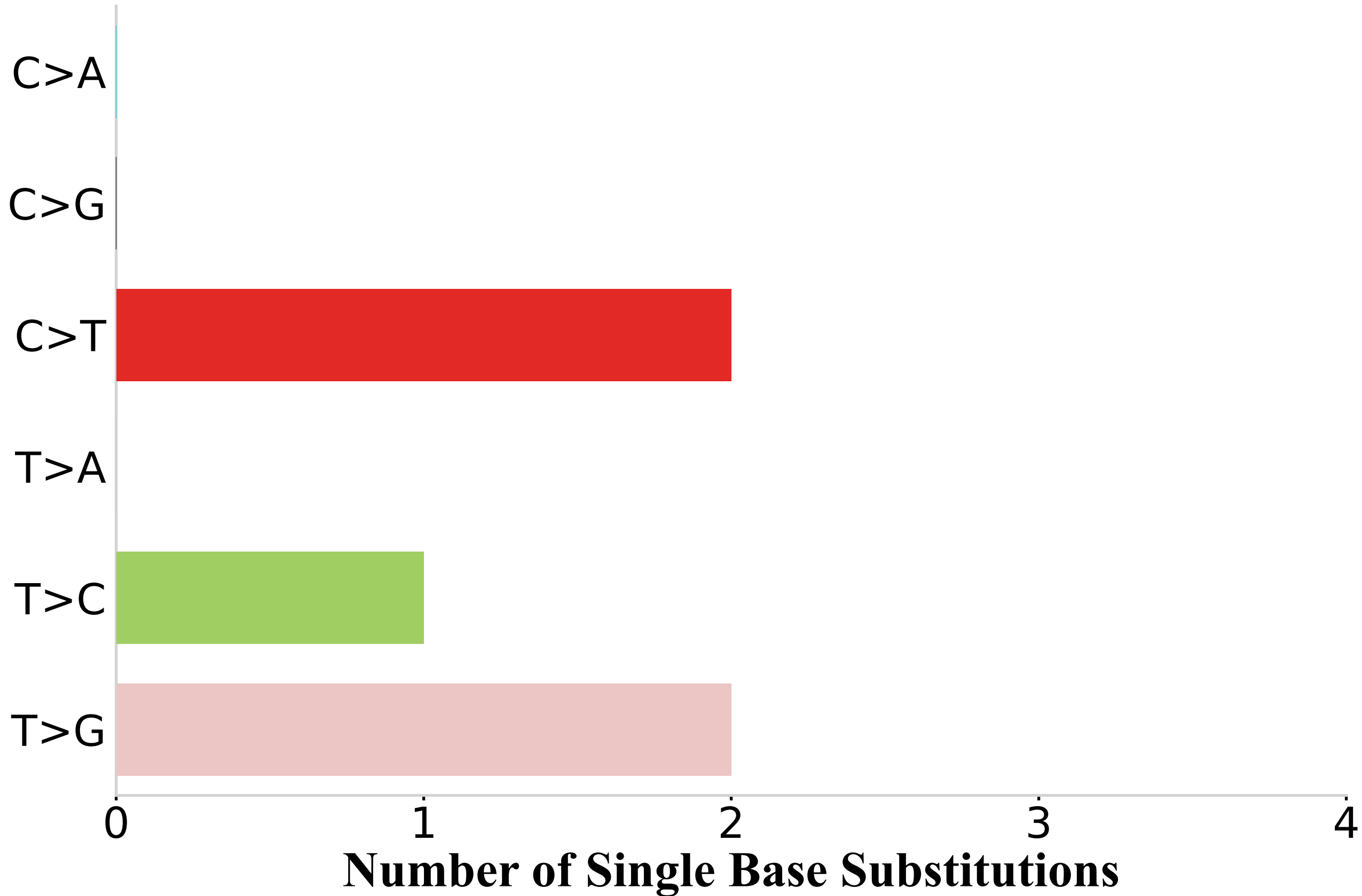
P-0008318-T01-IM5: 2 subs



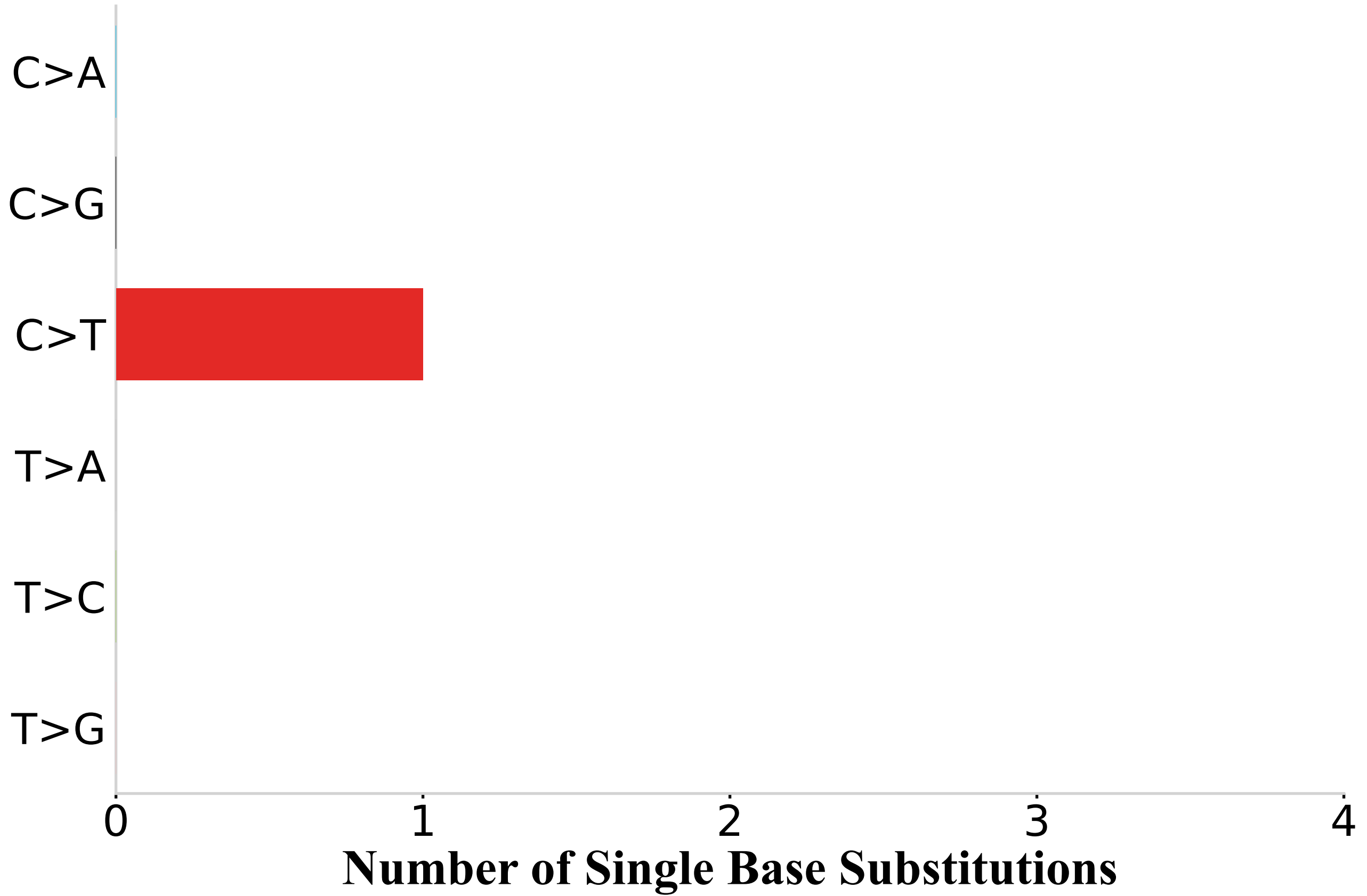
P-0008536-T02-IM5: 5 subs



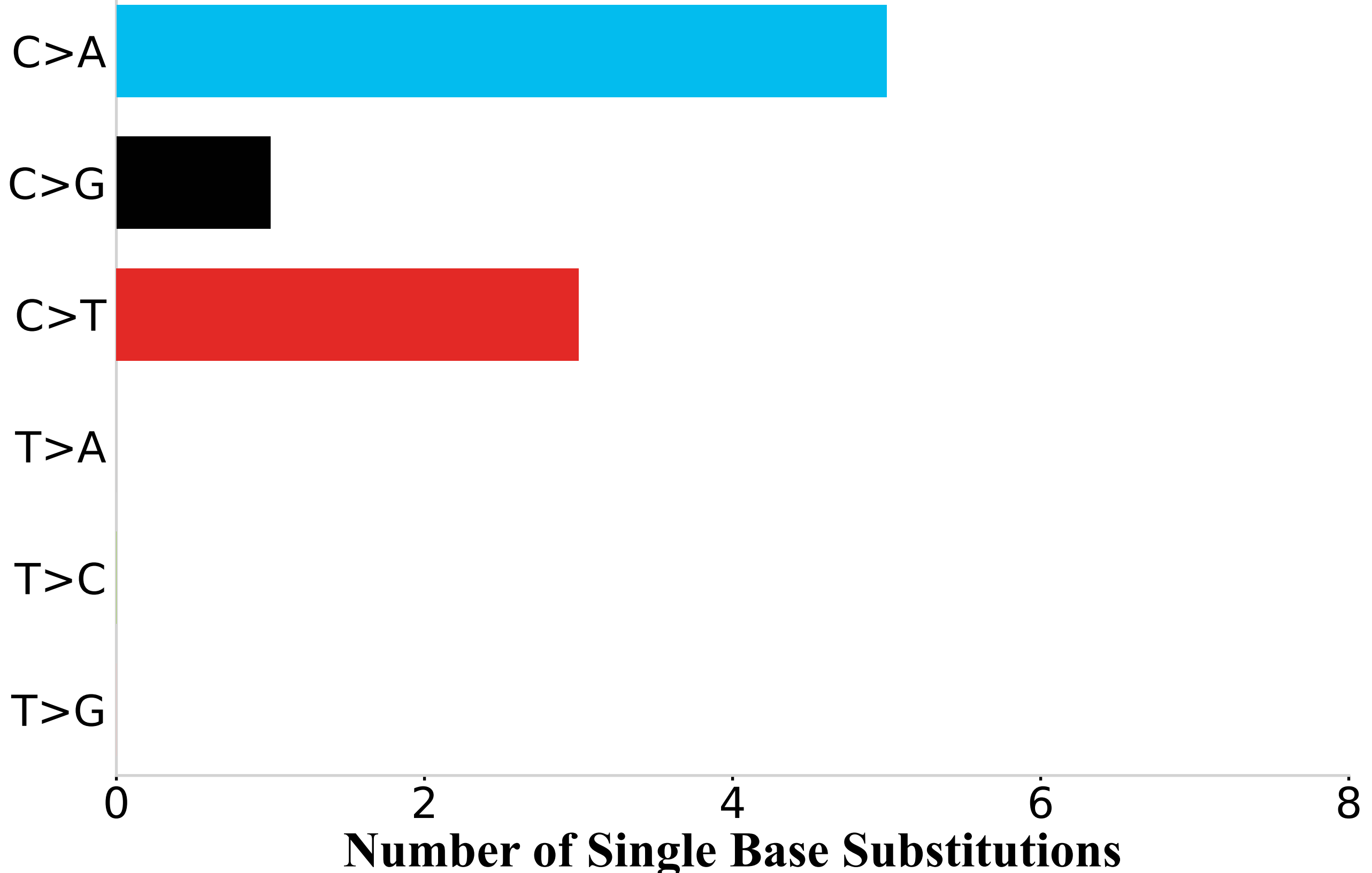
P-0009055-T01-IM5: 5 subs



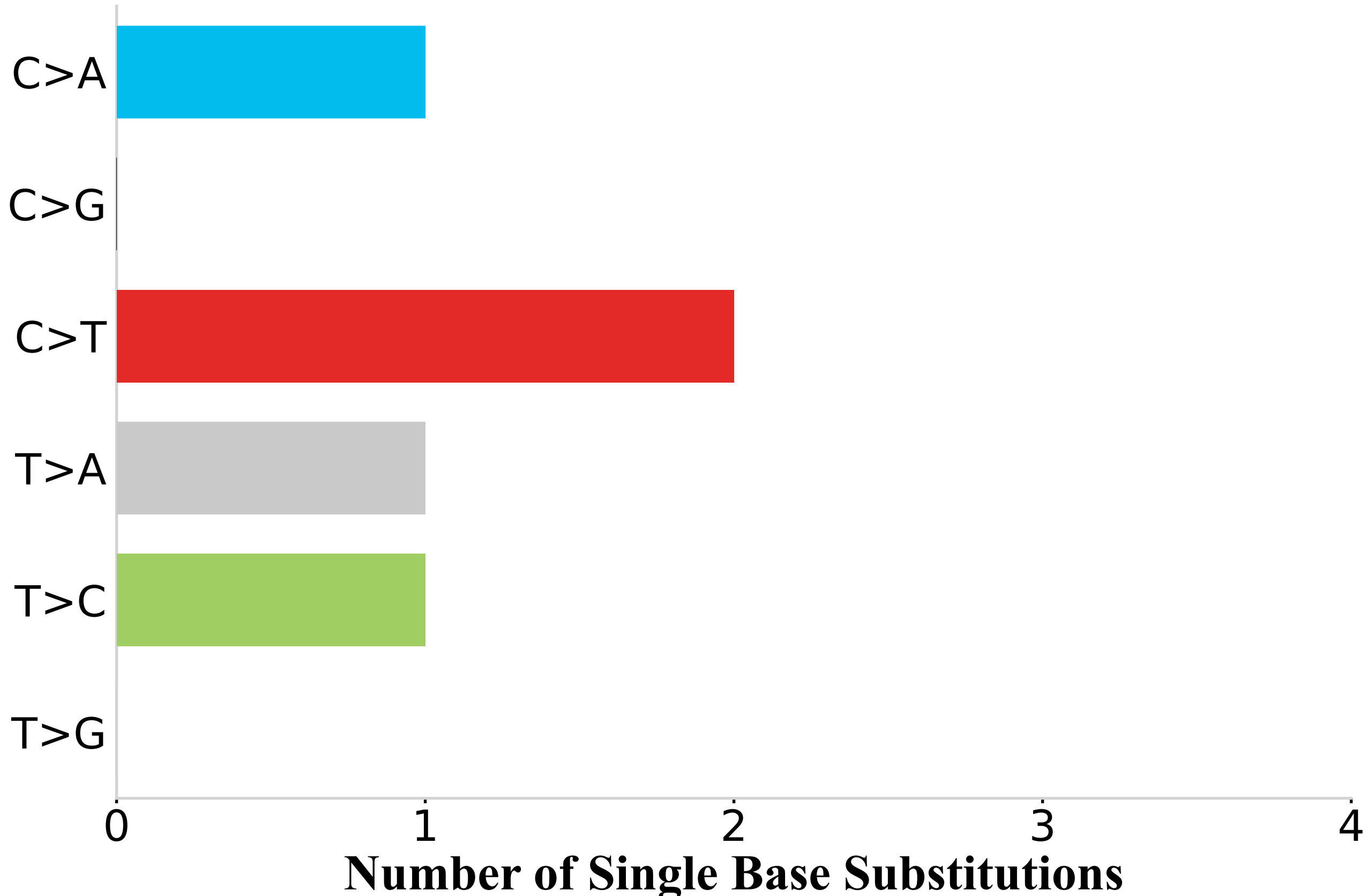
P-0009065-T01-IM5: 1 subs



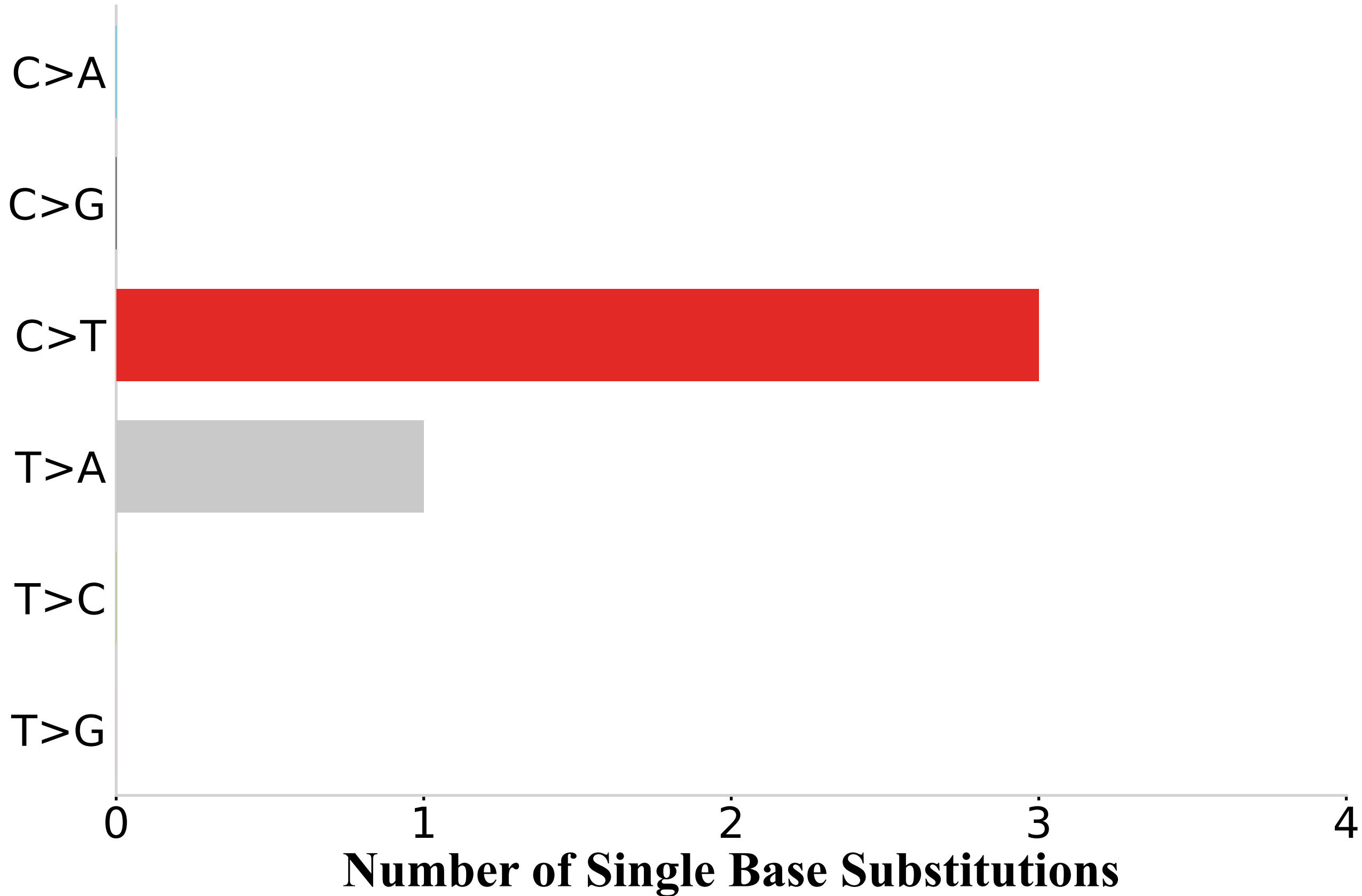
P-0009066-T01-IM5: 9 subs



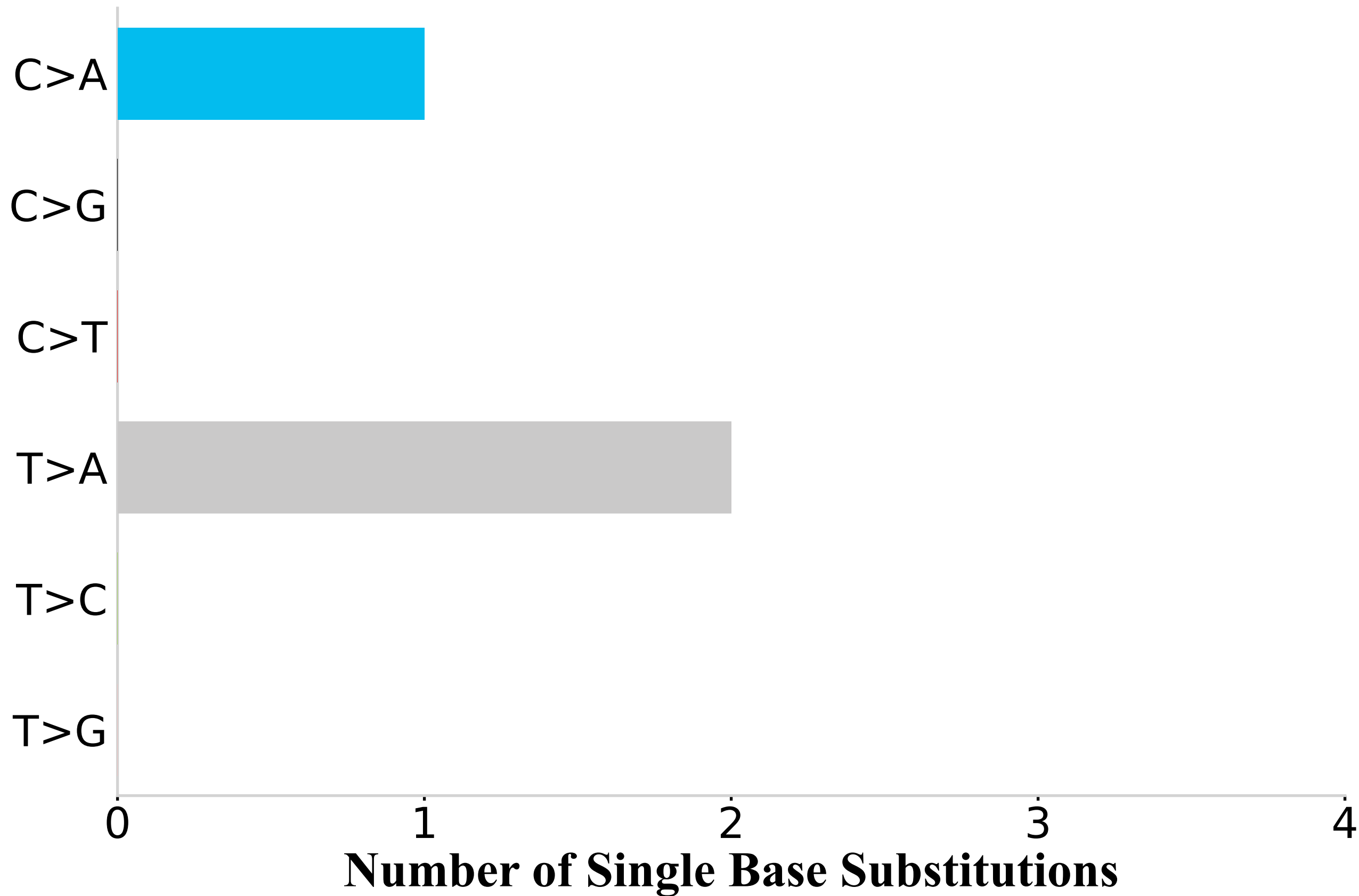
P-0009067-T01-IM5: 5 subs



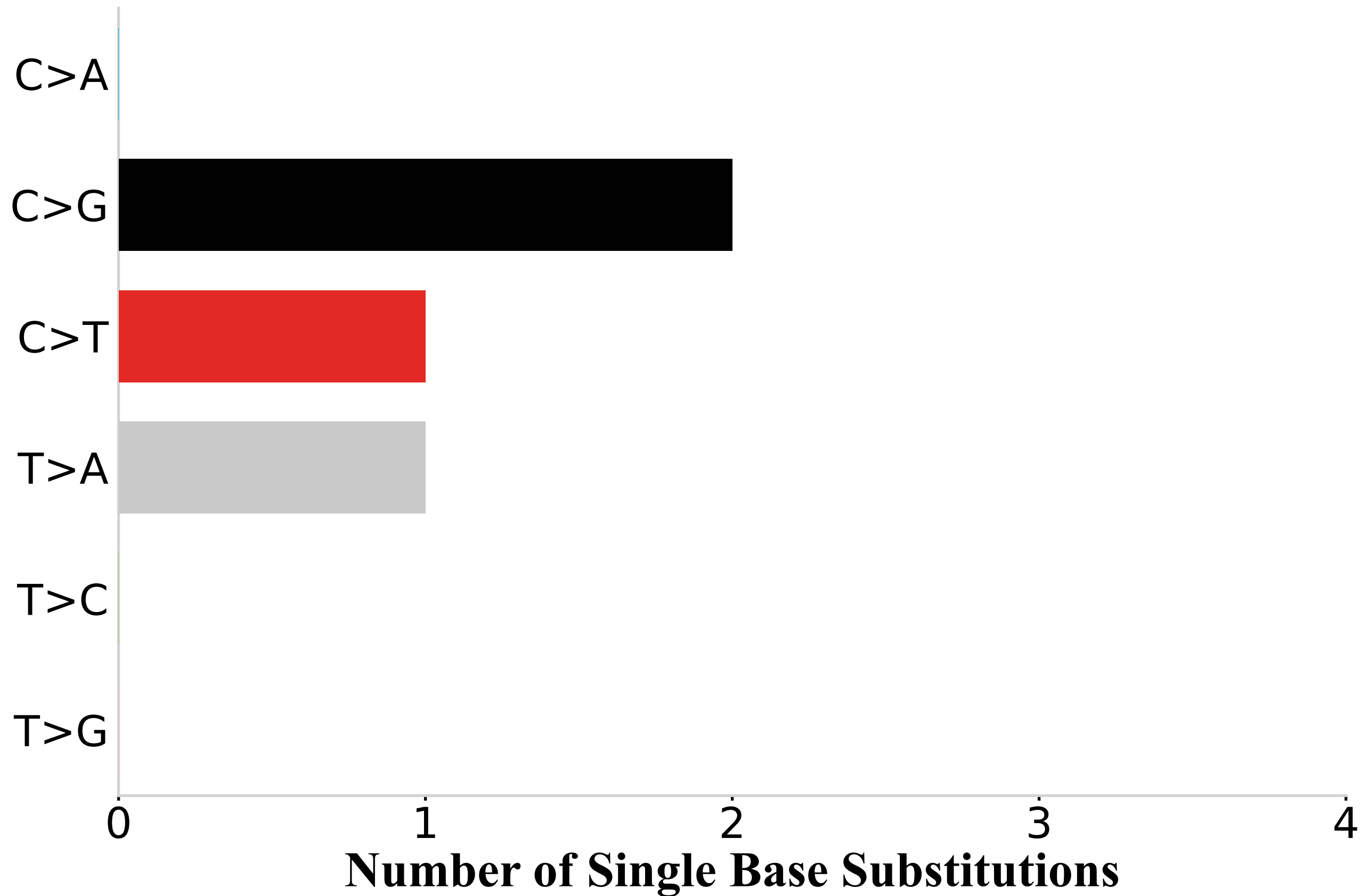
P-0009088-T01-IM5: 4 subs



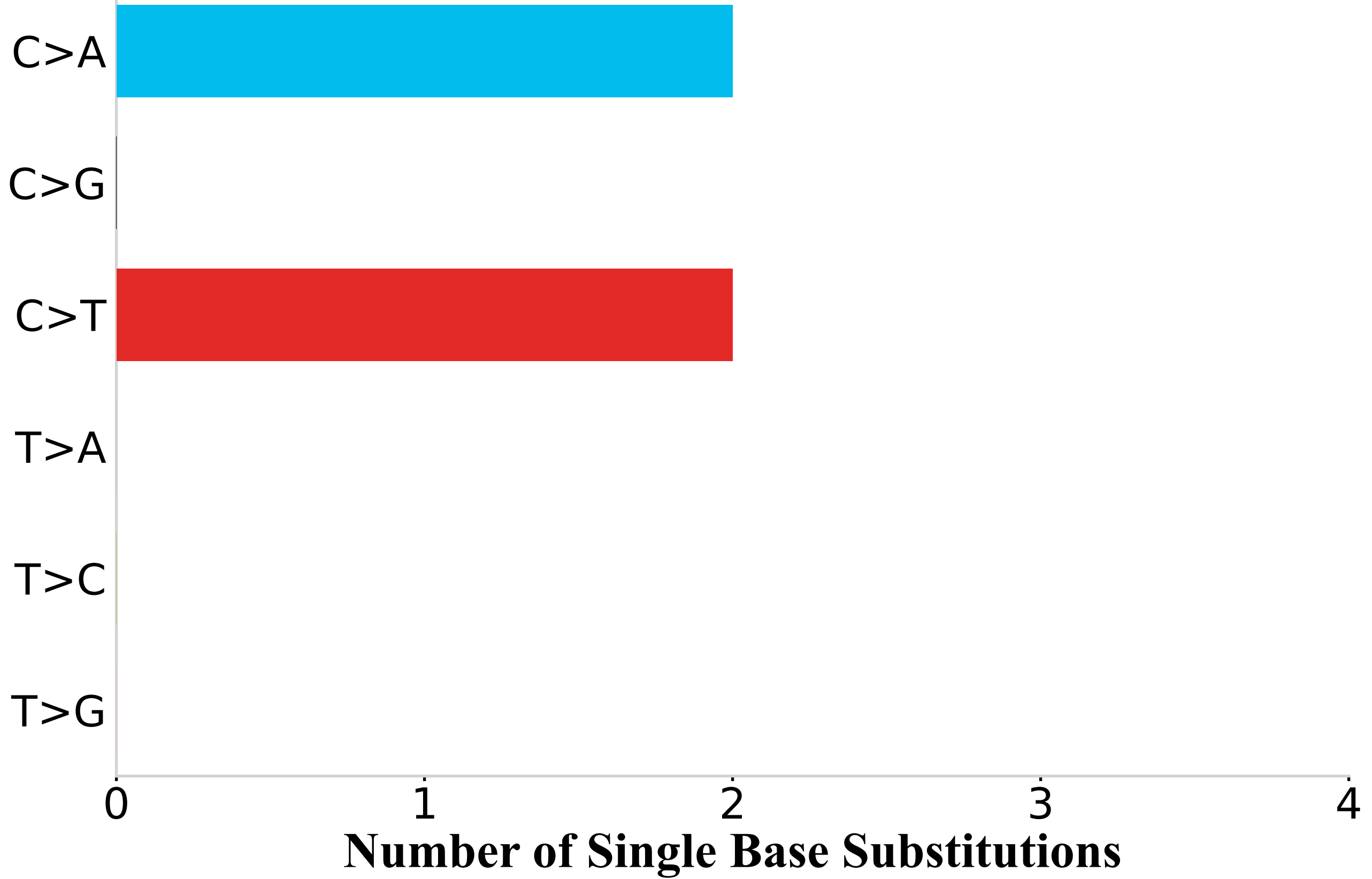
P-0009100-T01-IM5: 3 subs



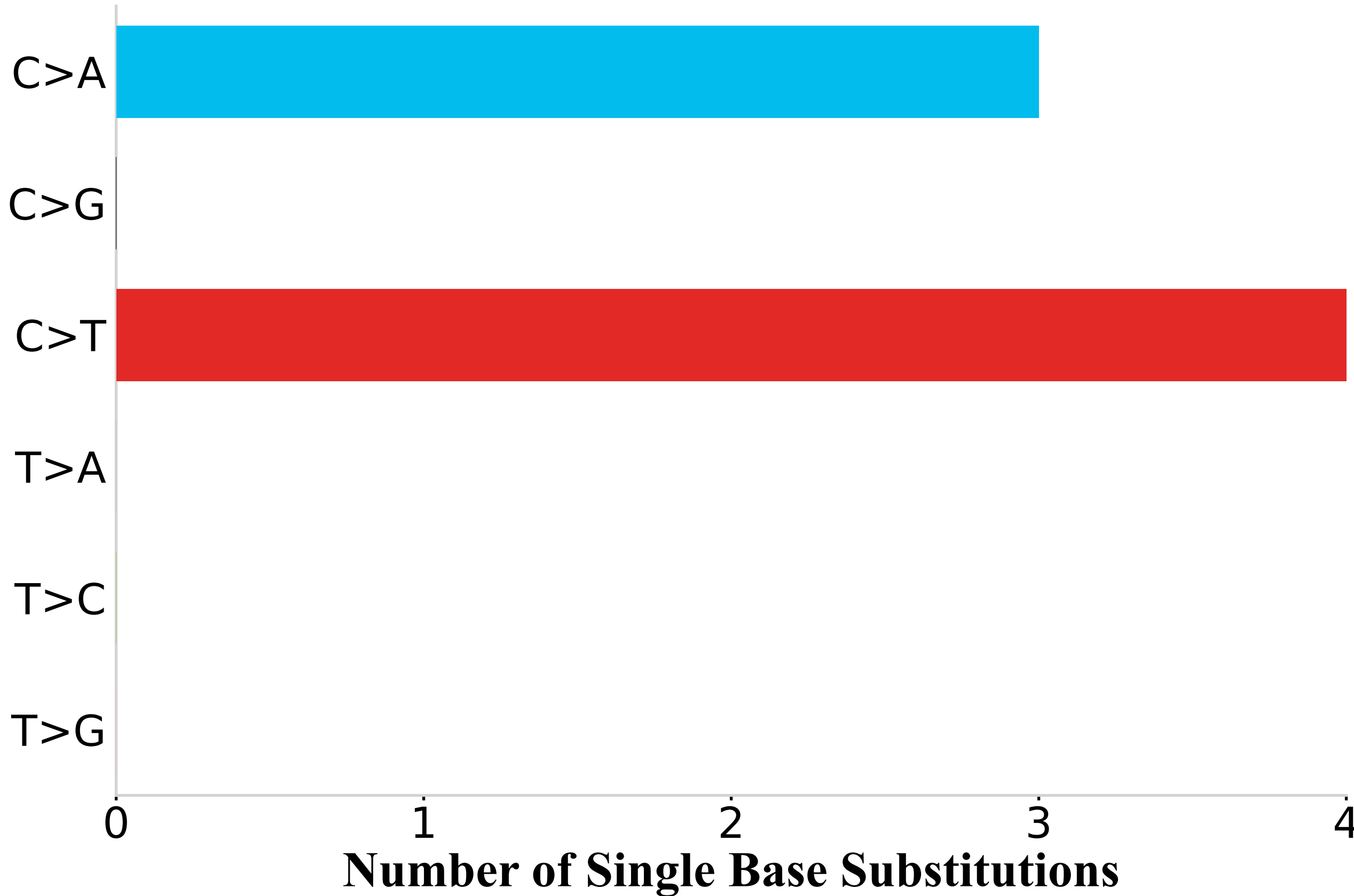
P-0009400-T01-IM5: 4 subs



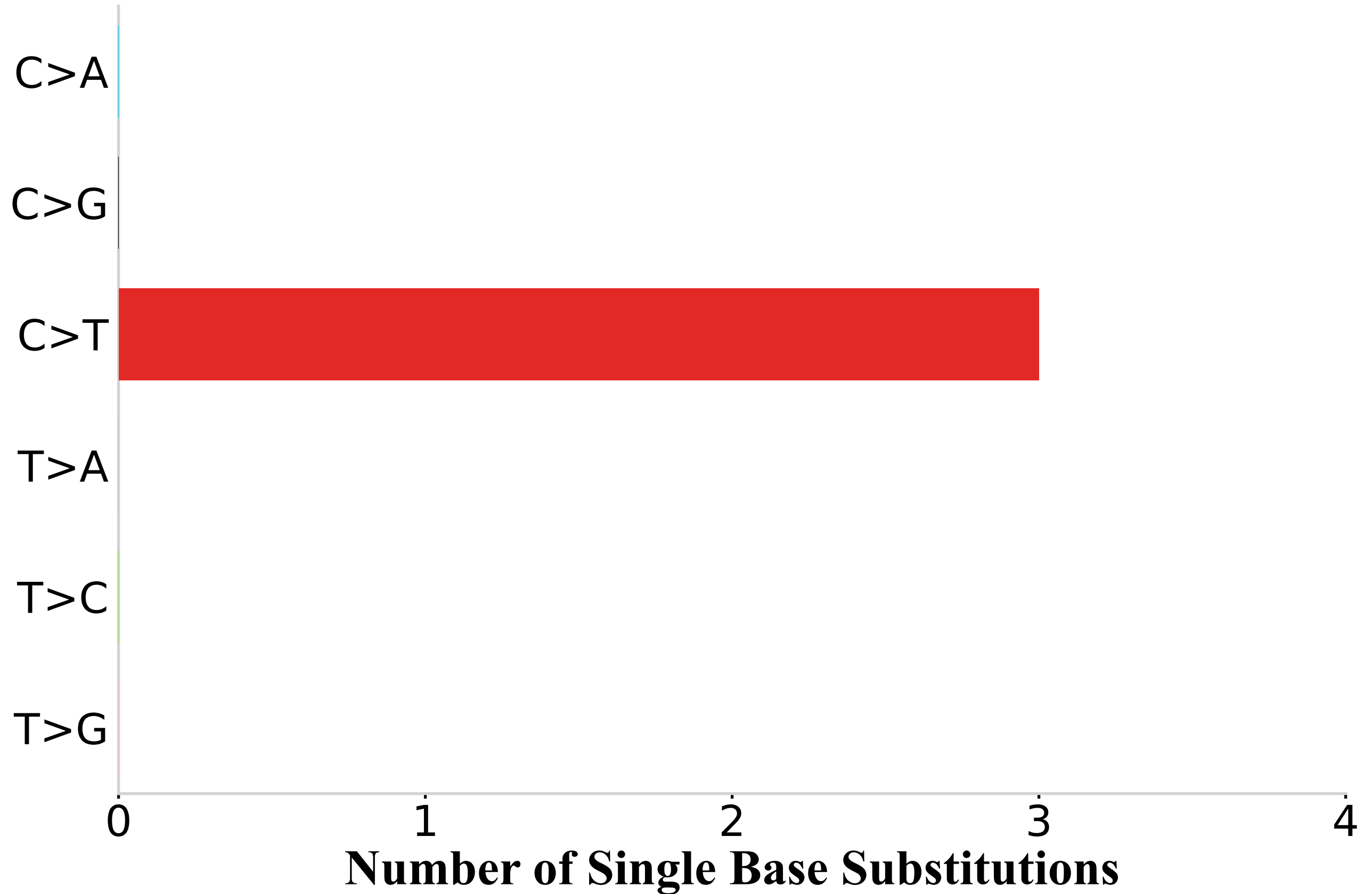
P-0009503-T01-IM5: 4 subs



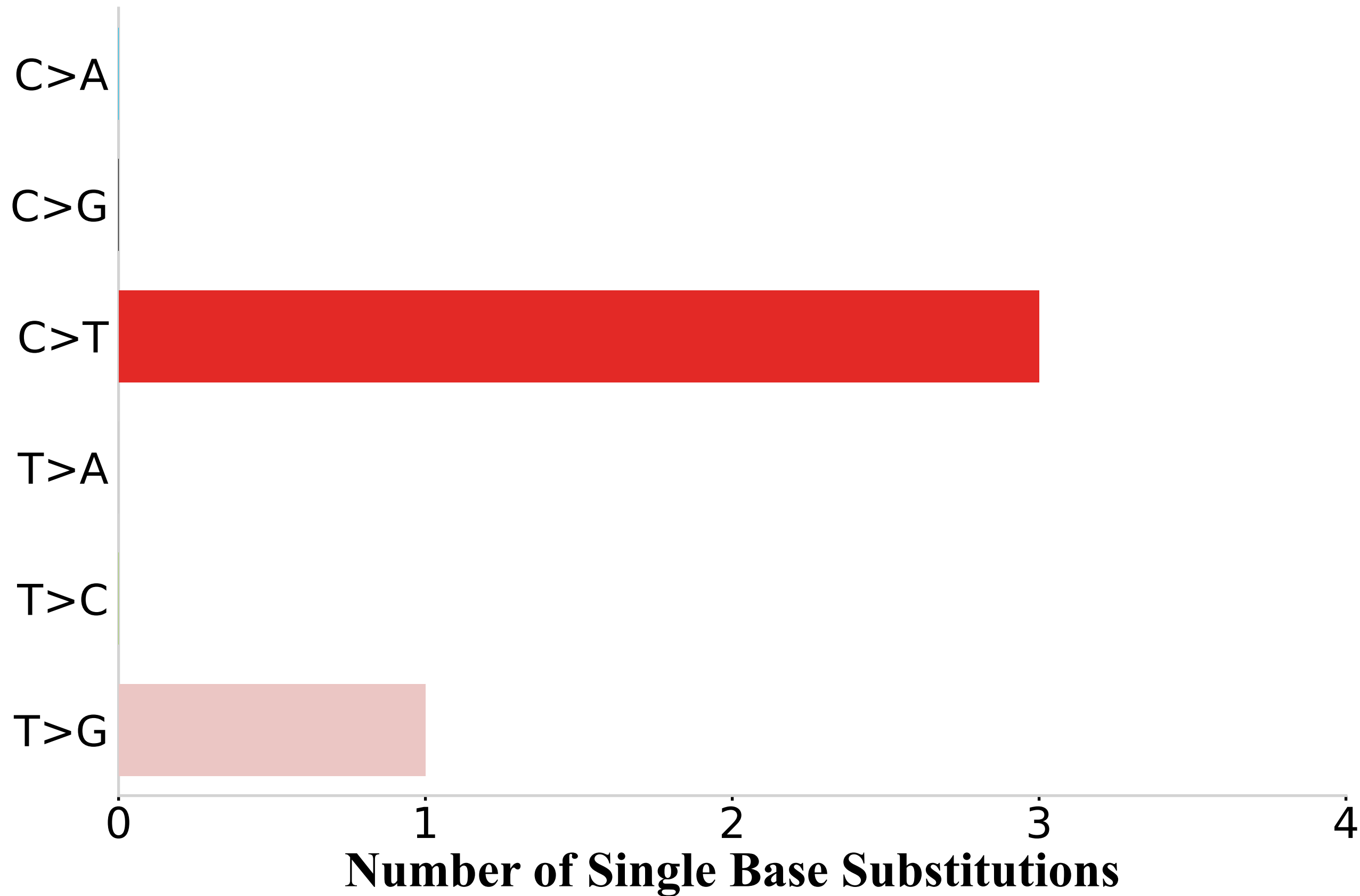
P-0009563-T01-IM5: 7 subs



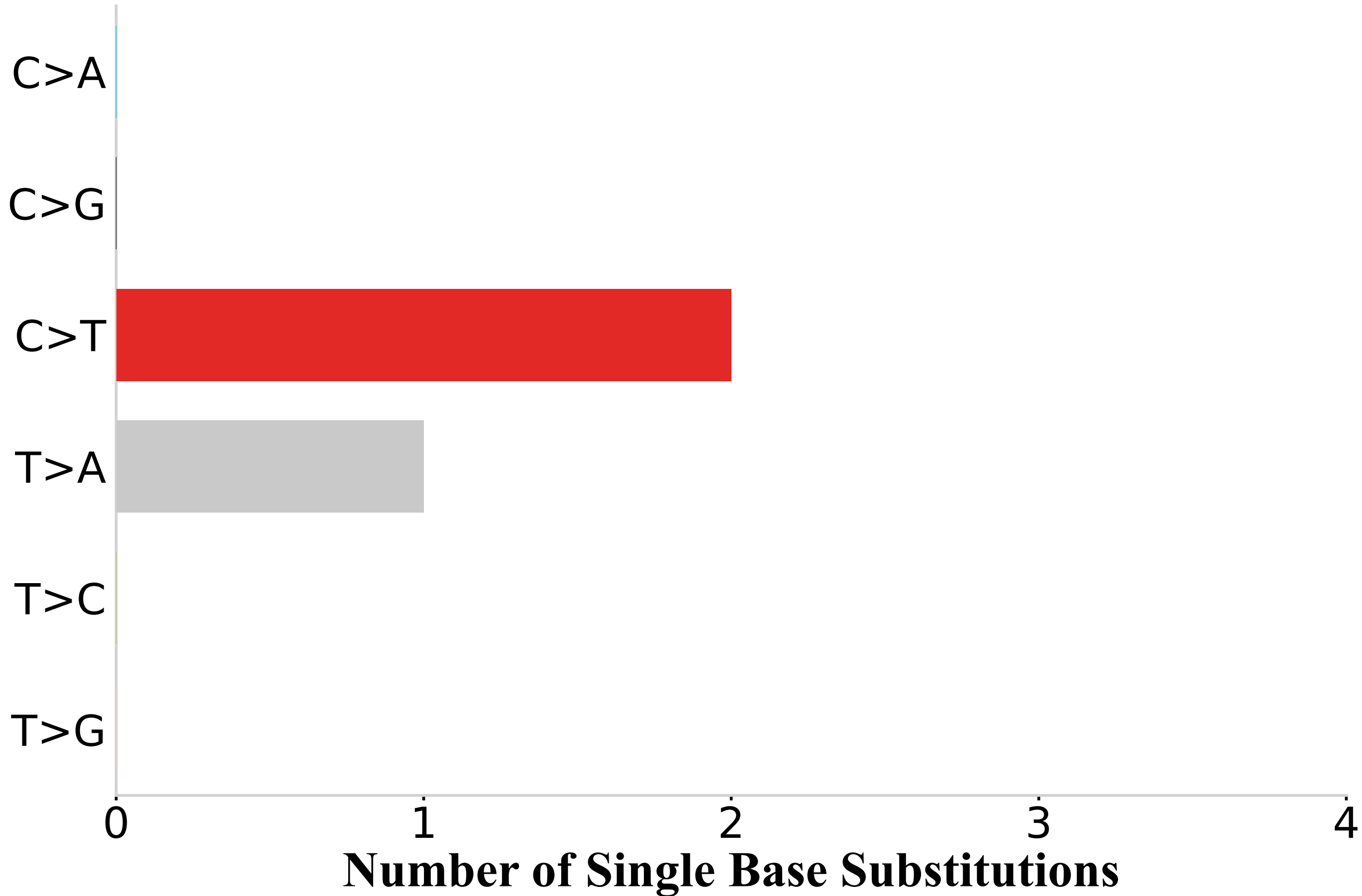
P-0009631-T01-IM5: 3 subs



P-0009637-T01-IM5: 4 subs



P-0009739-T01-IM5: 3 subs



P-0009785-T01-IM5: 0 subs

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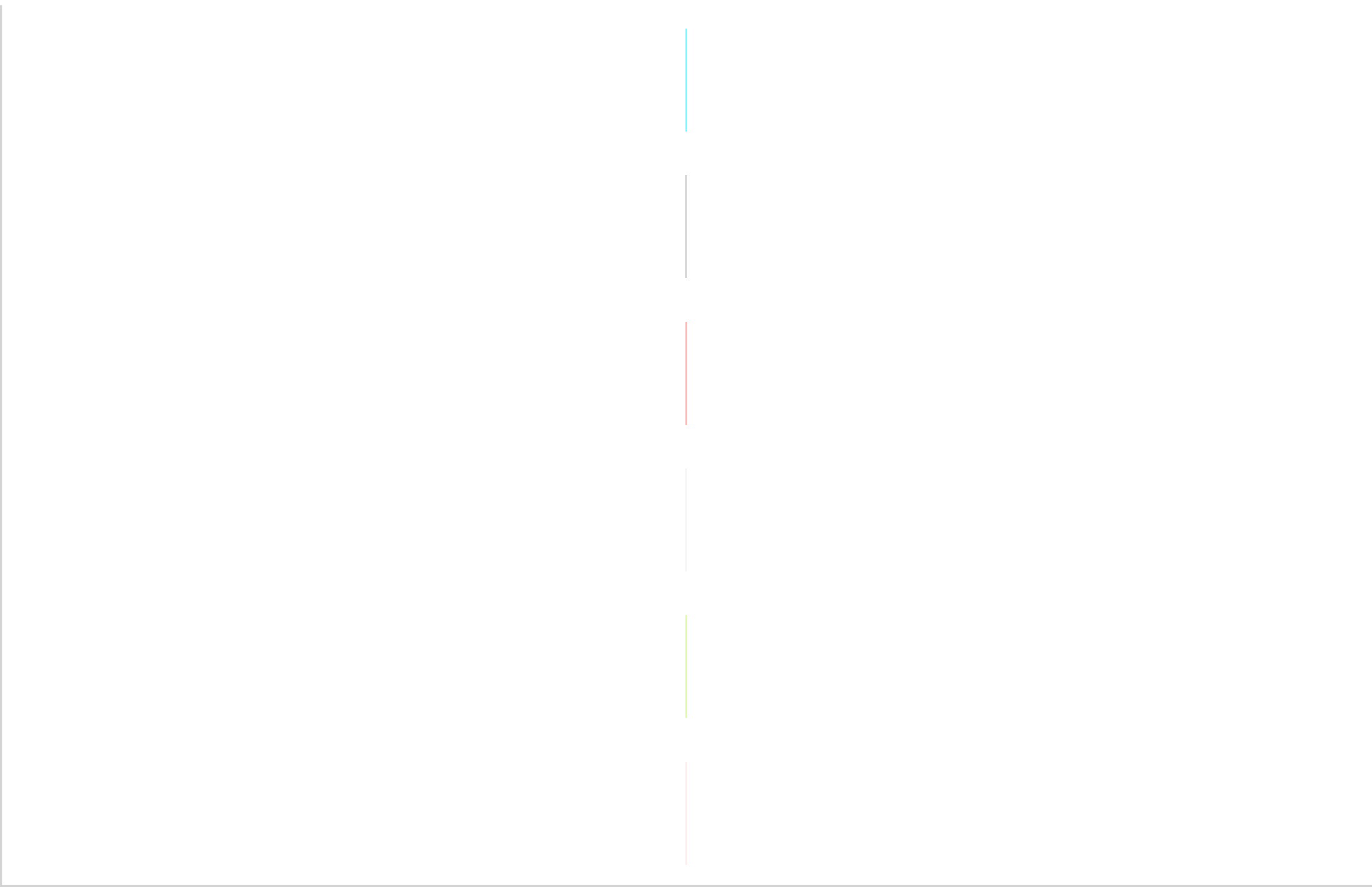
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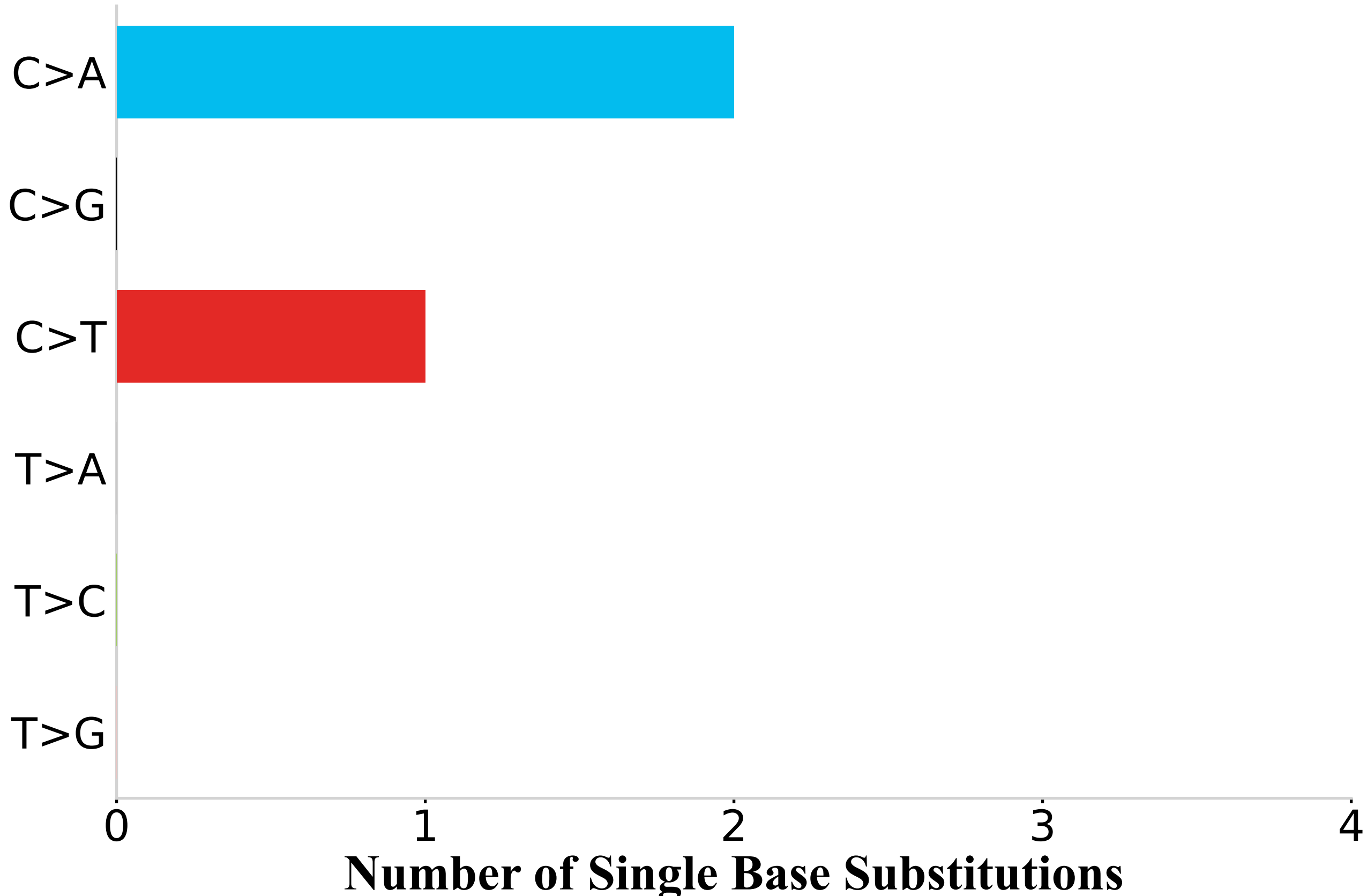
T>G

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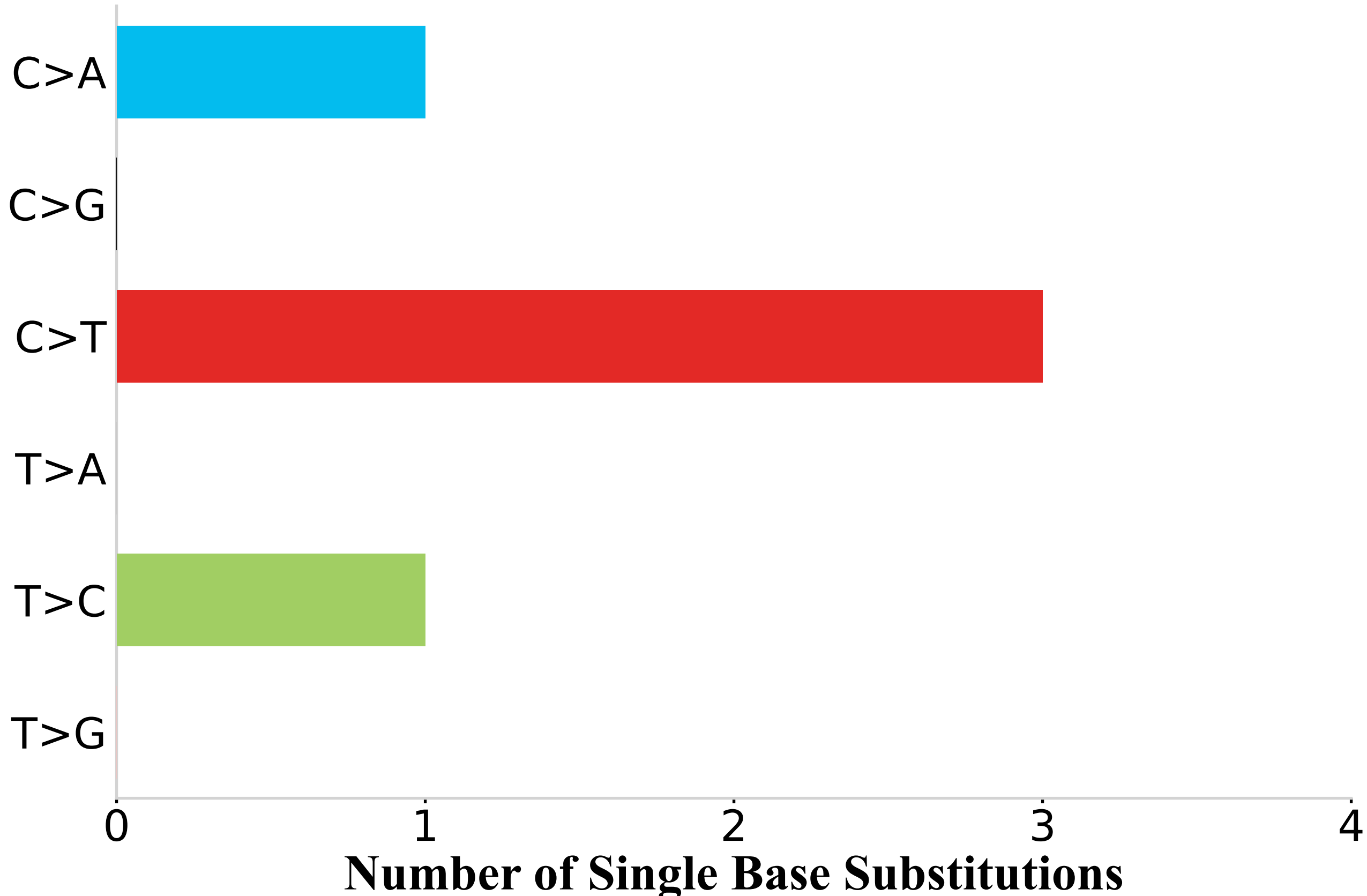
Number of Single Base Substitutions



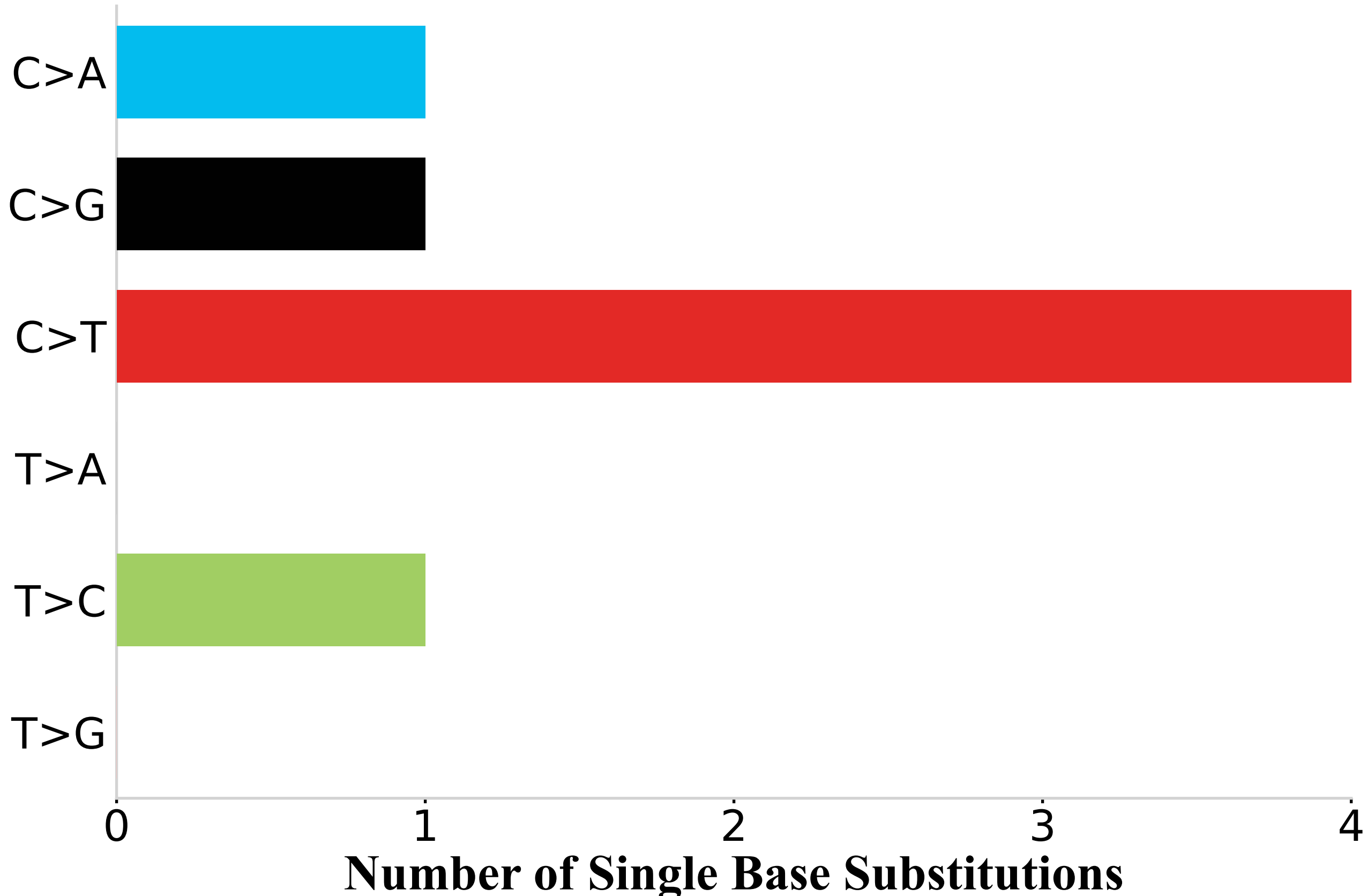
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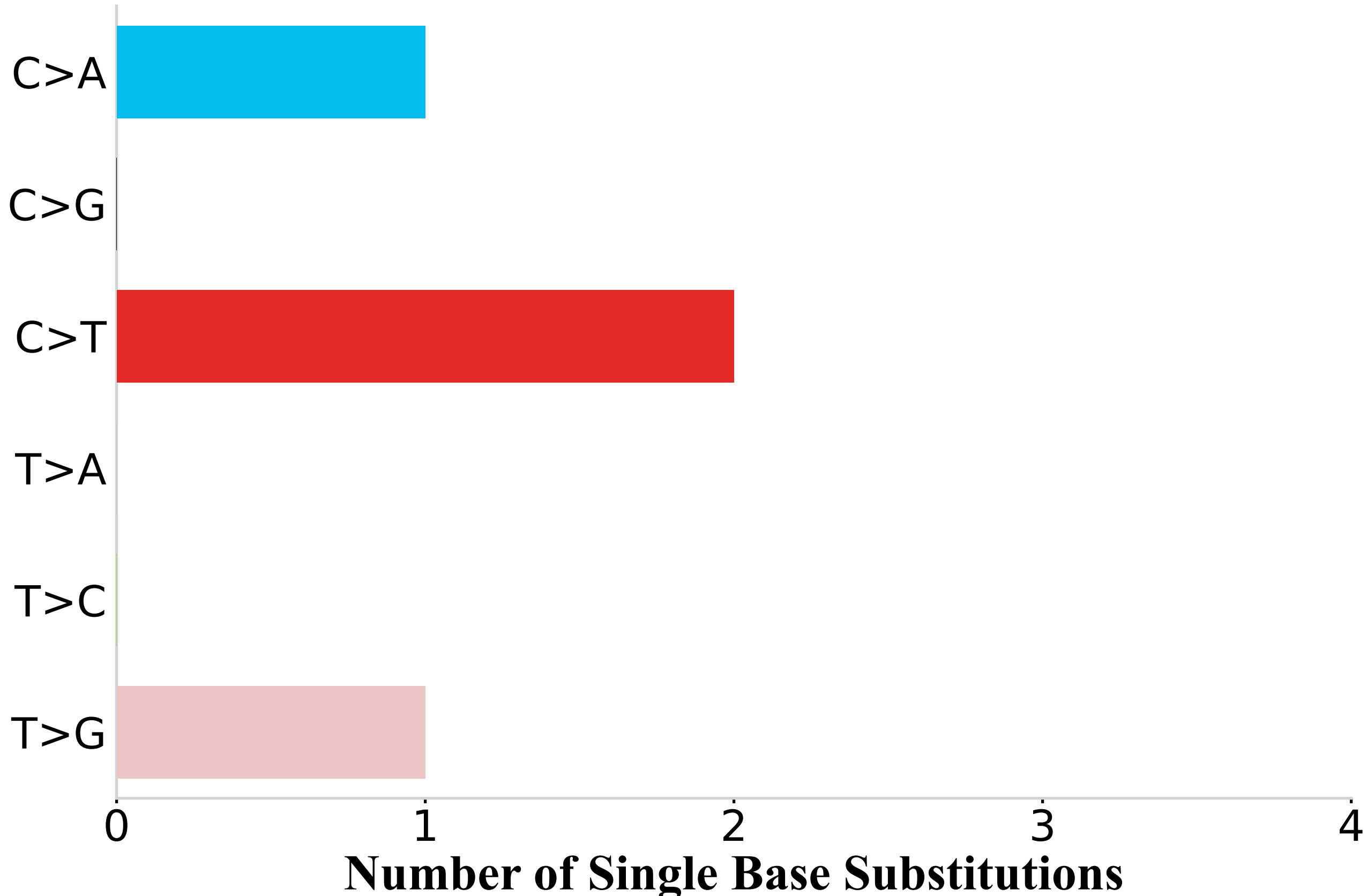
P-0009872-T01-IM5: 5 subs



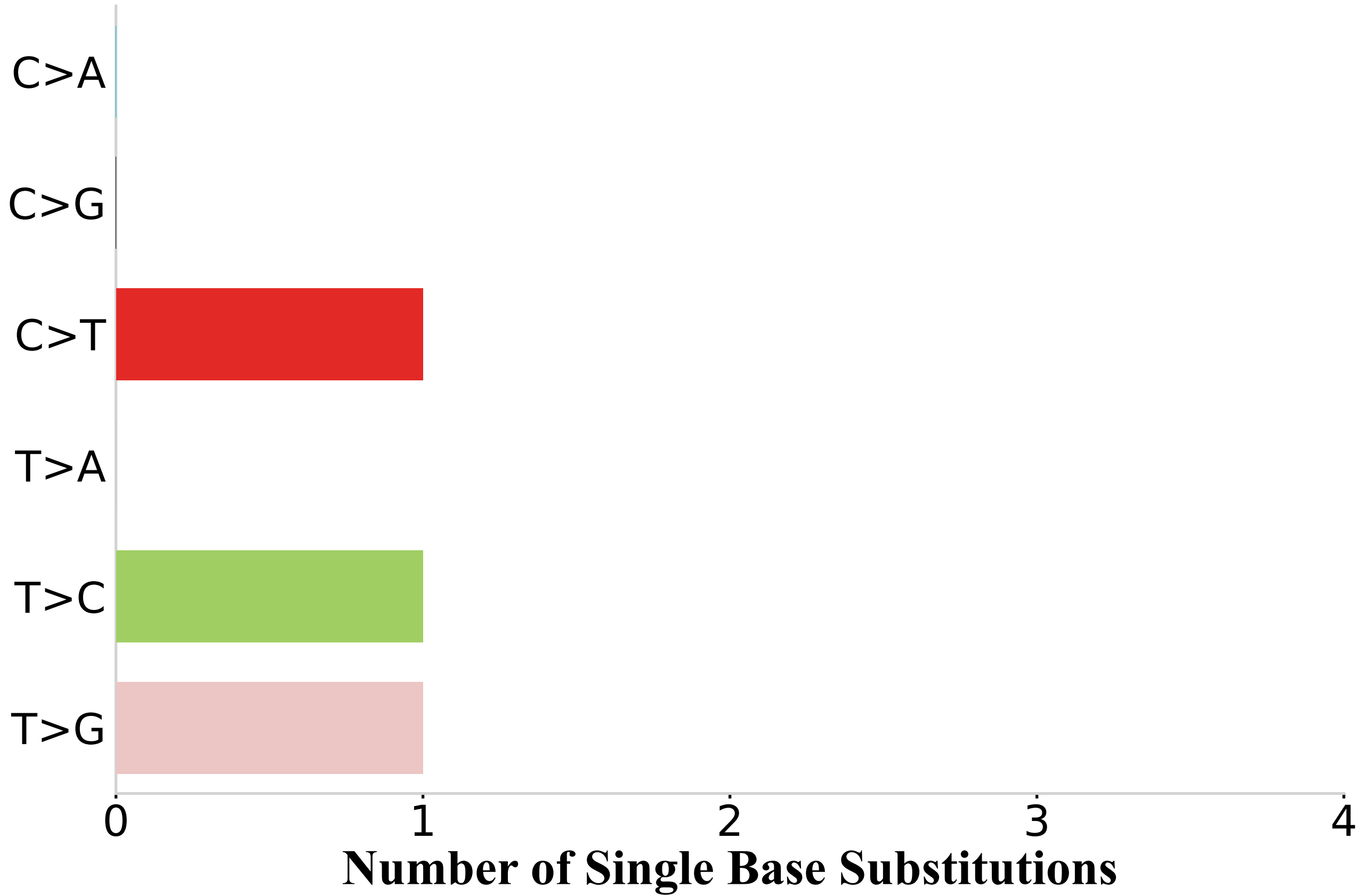
P-0010220-T01-IM5: 7 subs



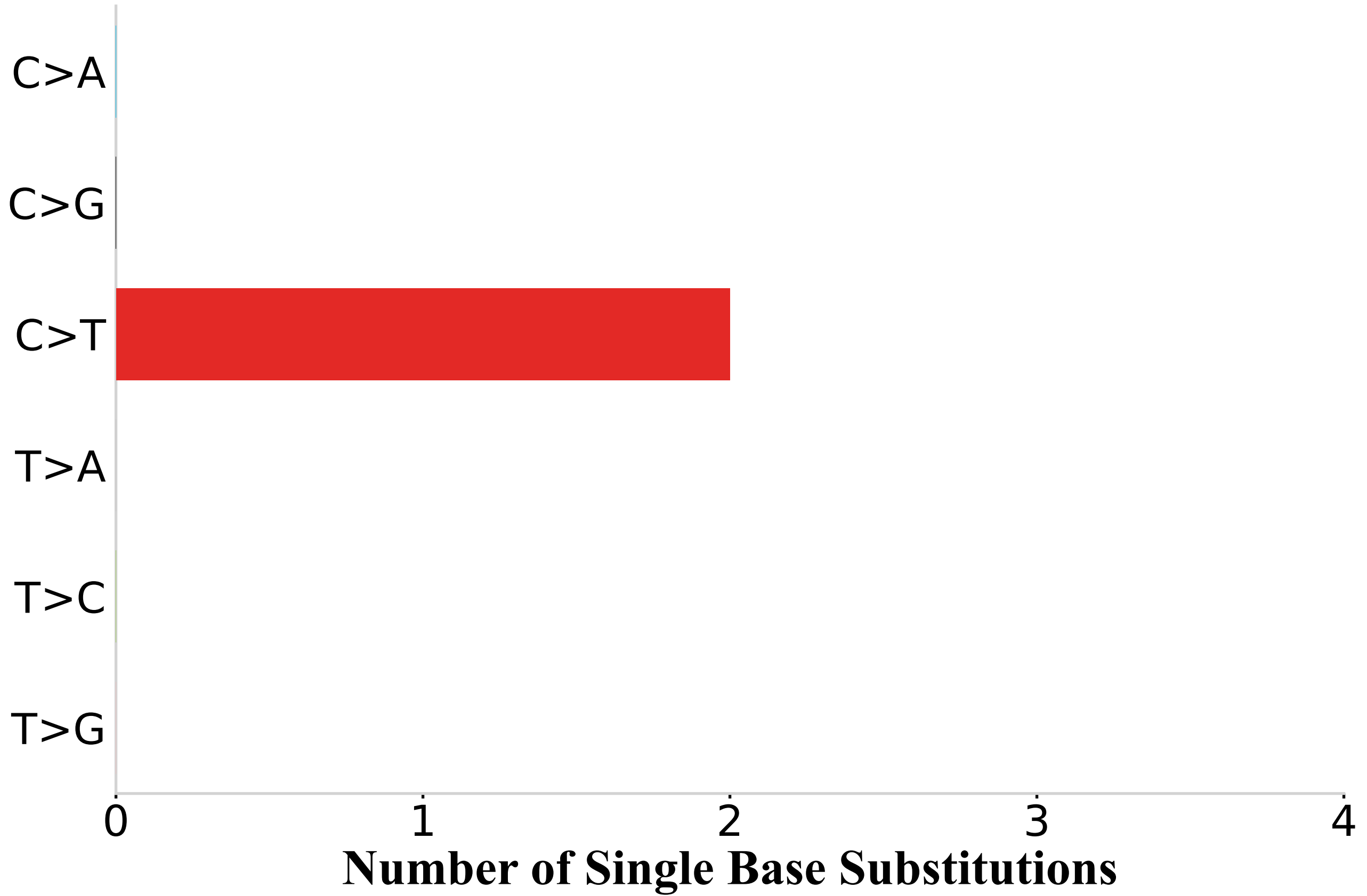
P-0010313-T01-IM5: 4 subs



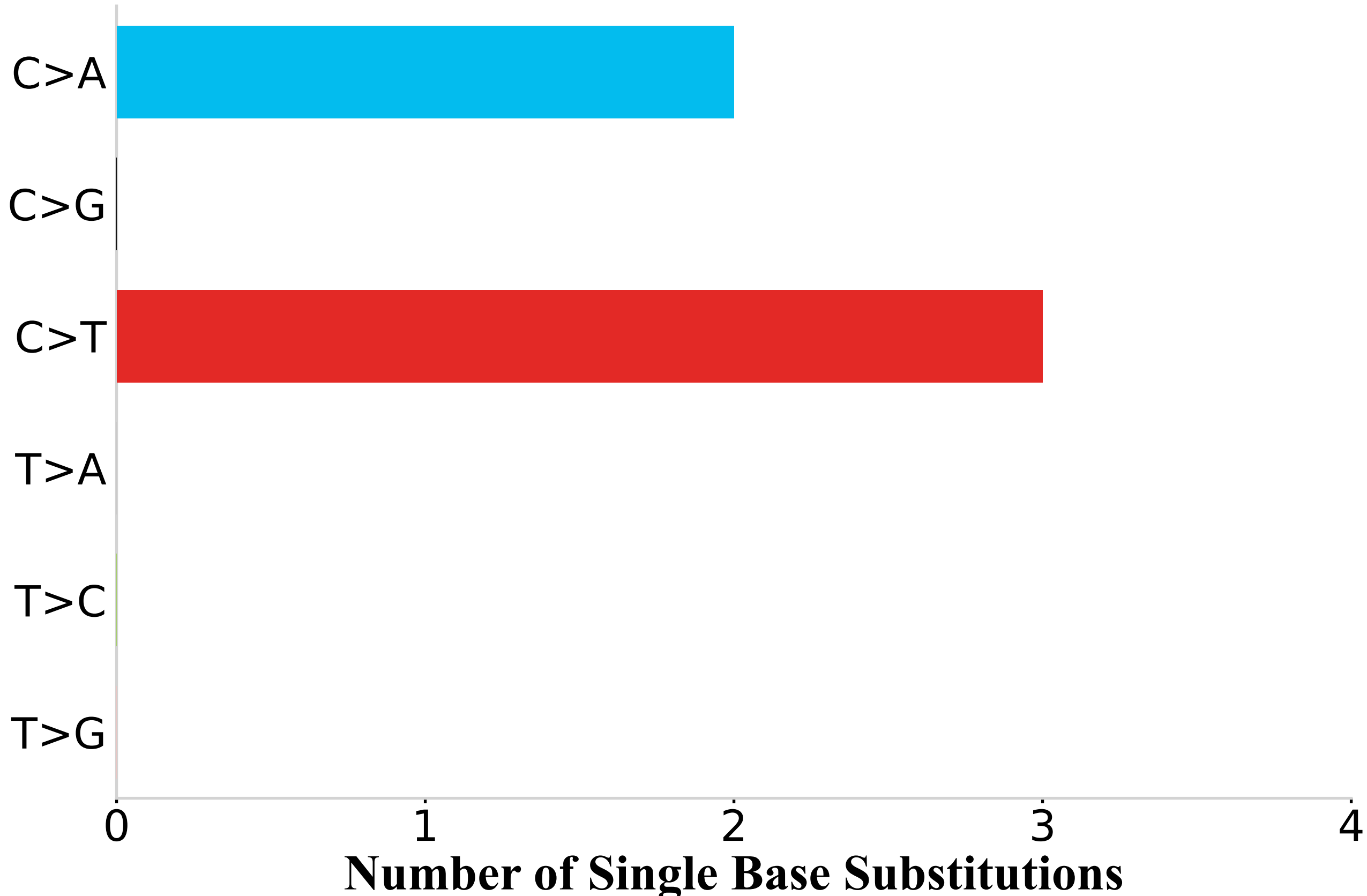
P-0010317-T01-IM5: 3 subs



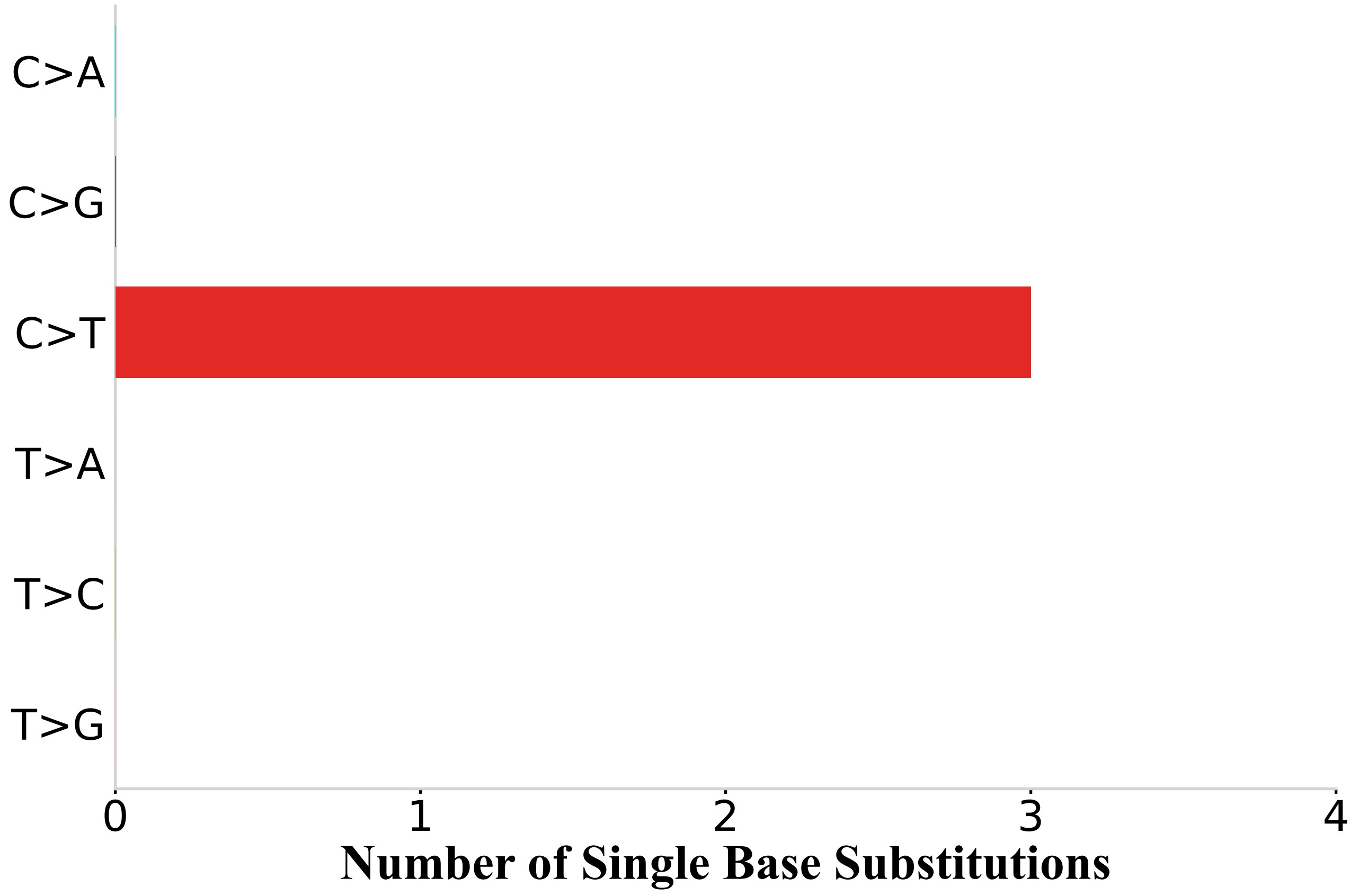
P-0010429-T01-IM5: 2 subs



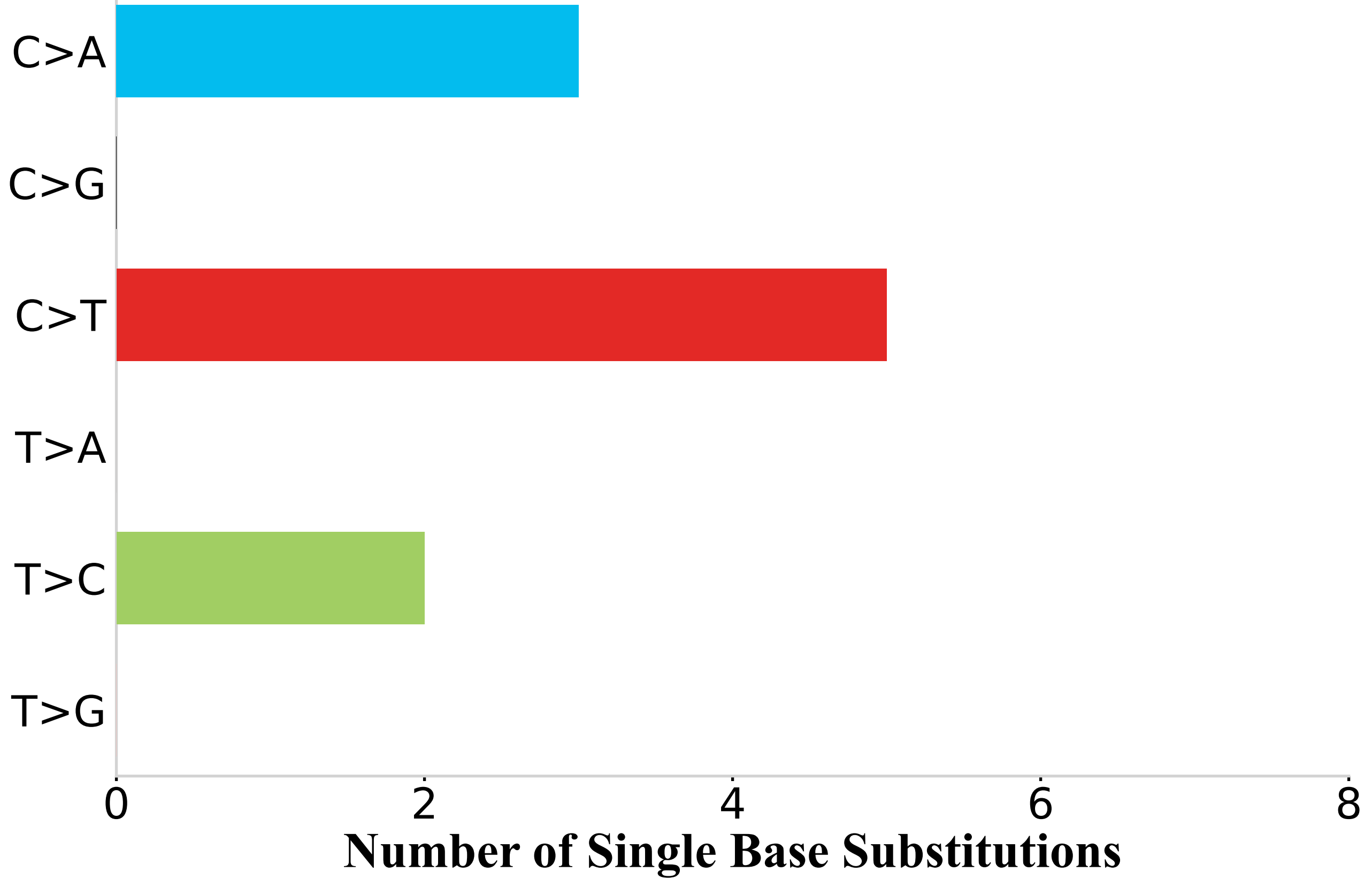
P-0010827-T01-IM5: 5 subs



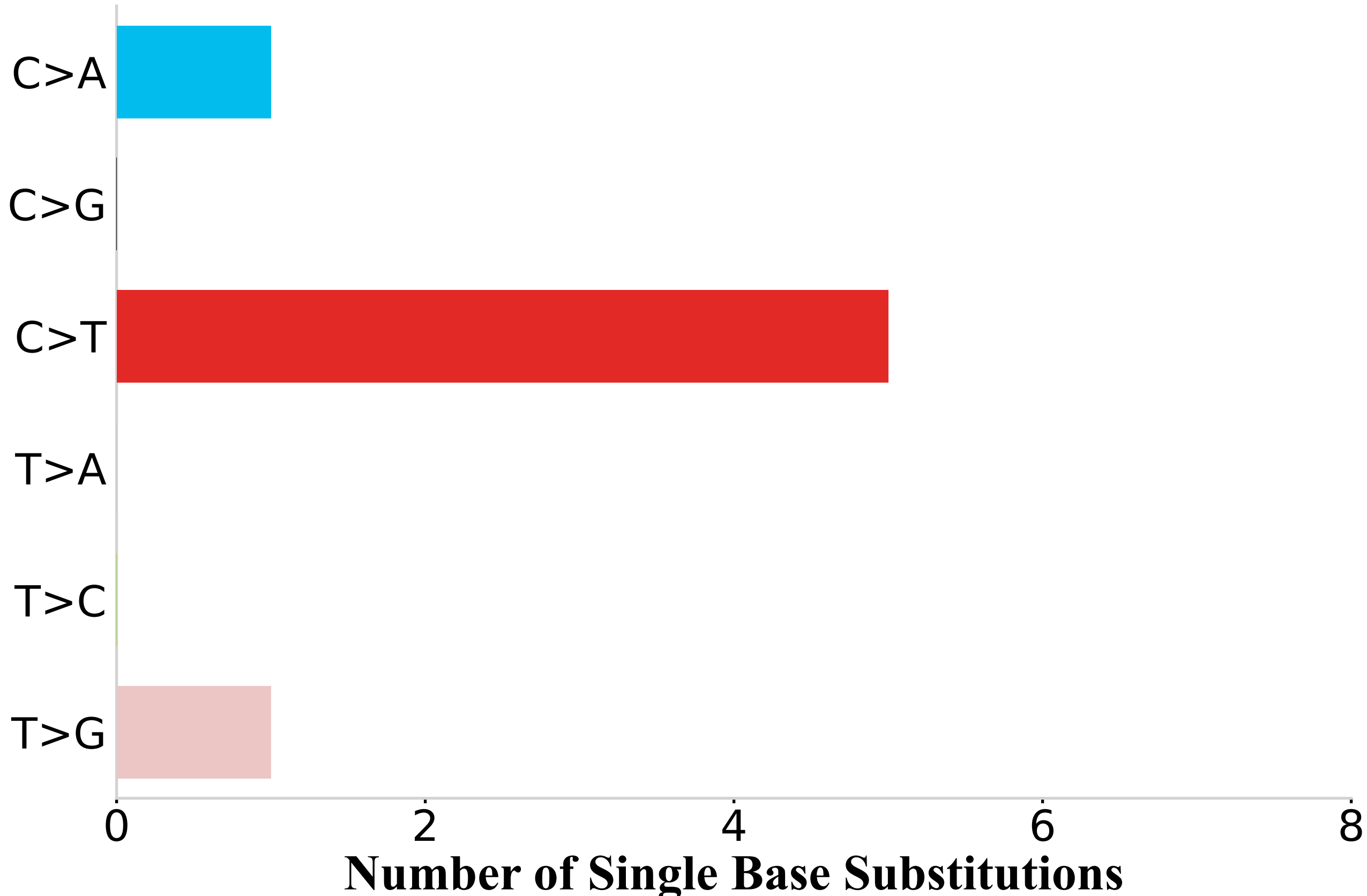
P-0011284-T01-IM5: 3 subs



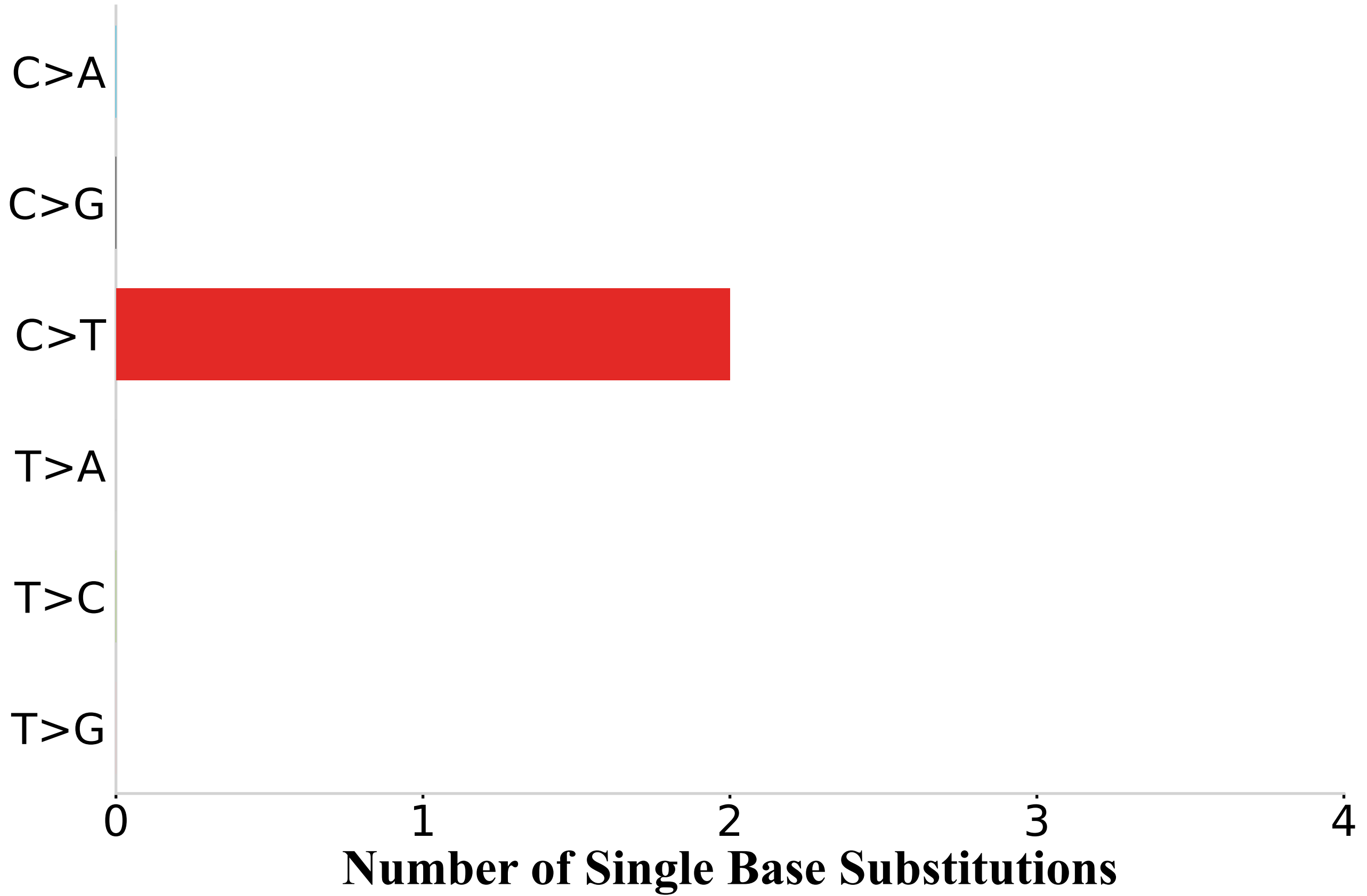
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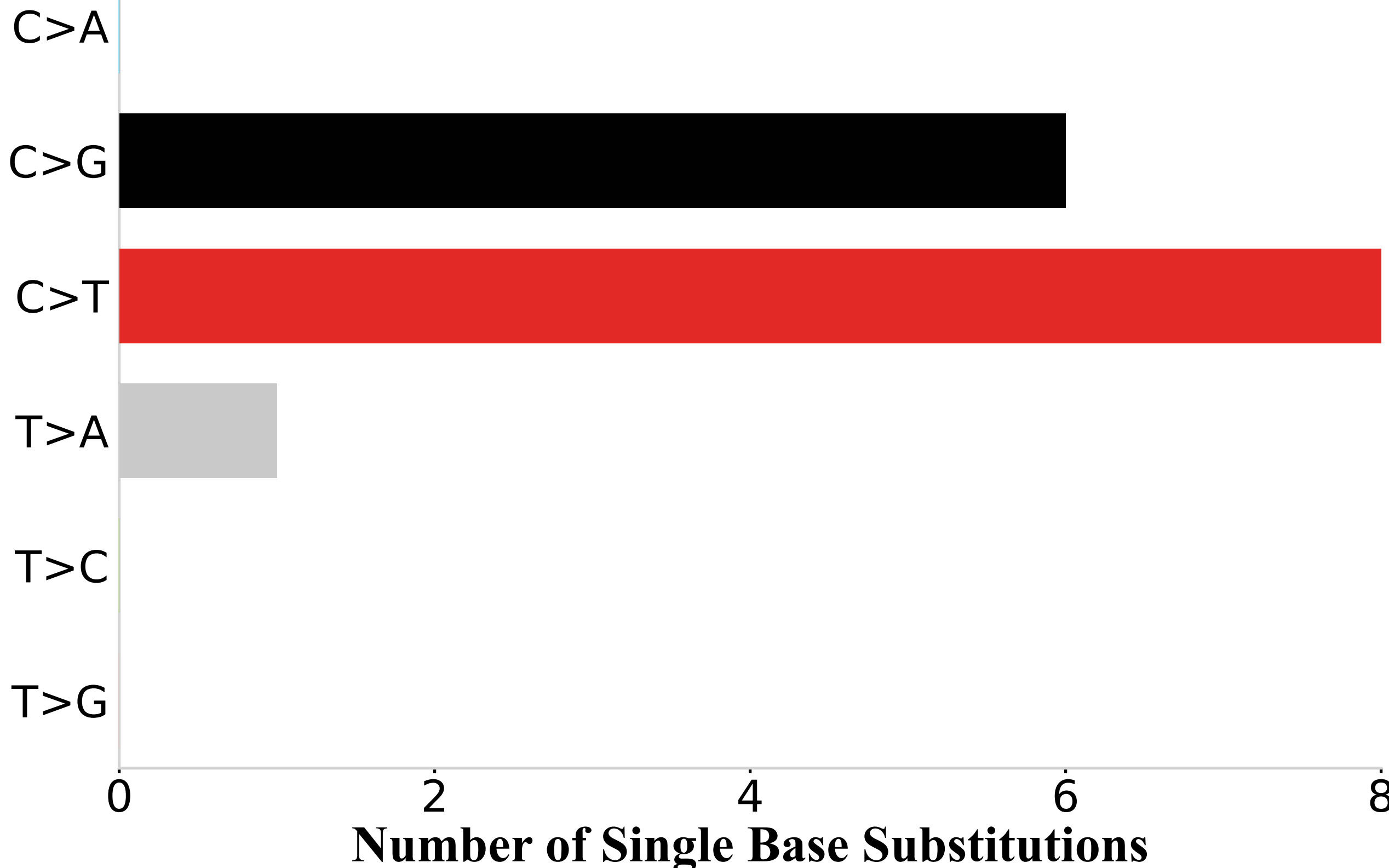
P-0012627-T01-IM5: 7 subs



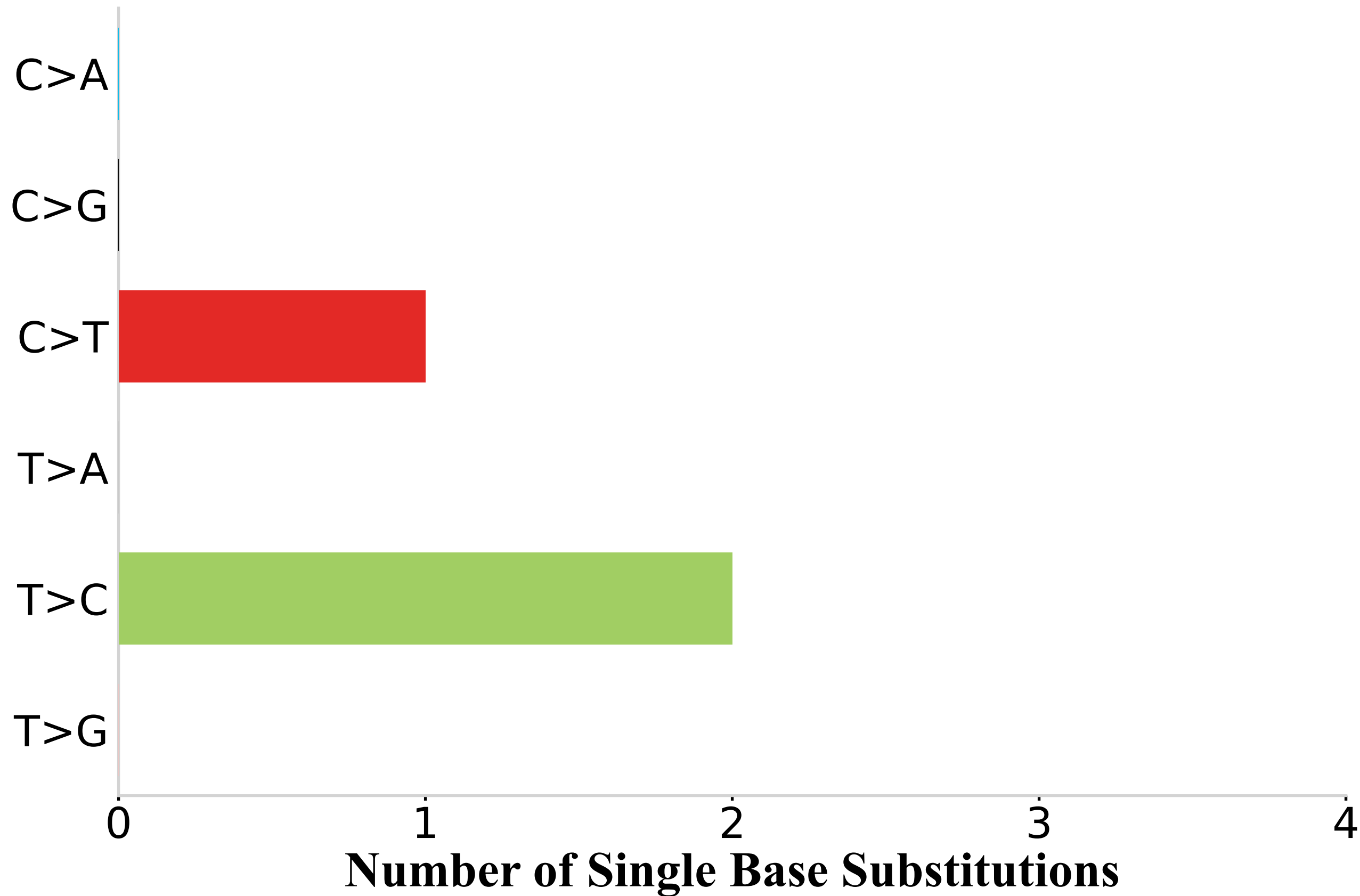
P-0012720-T01-IM5: 2 subs



P-0013106-T01-IM5: 15 subs



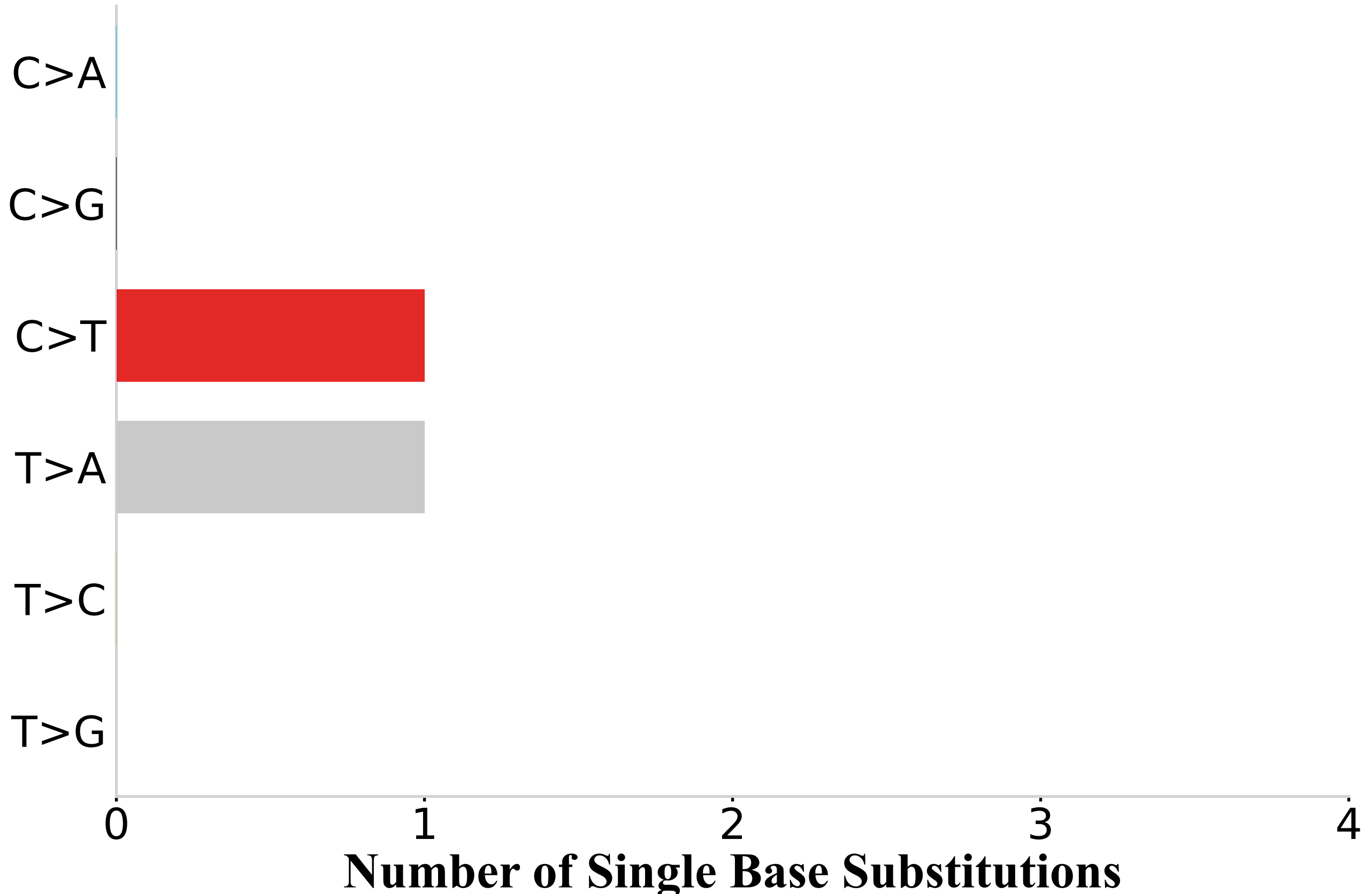
P-0013270-T01-IM5: 3 subs



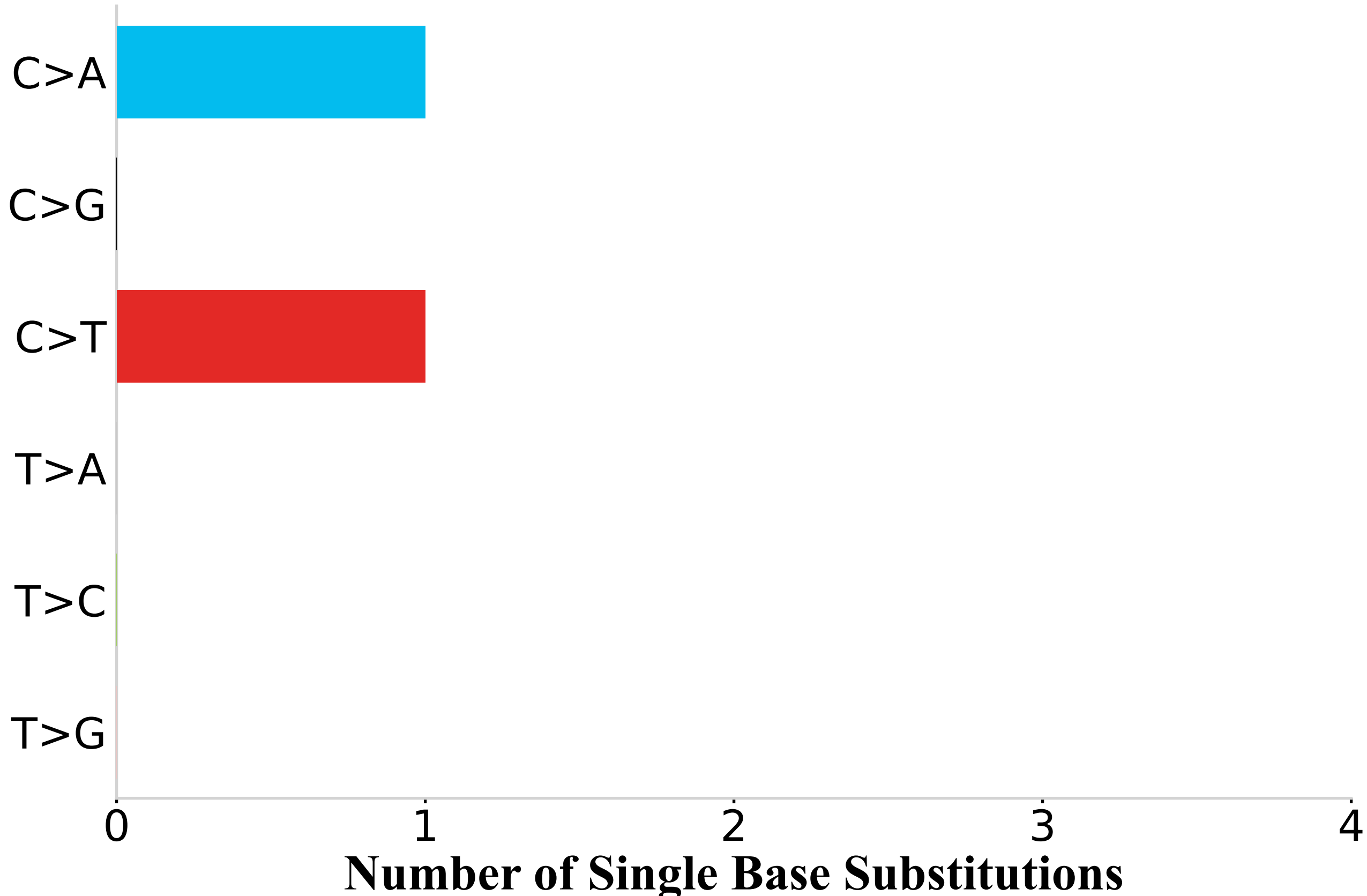
P-0013302-T01-IM5: 1 subs



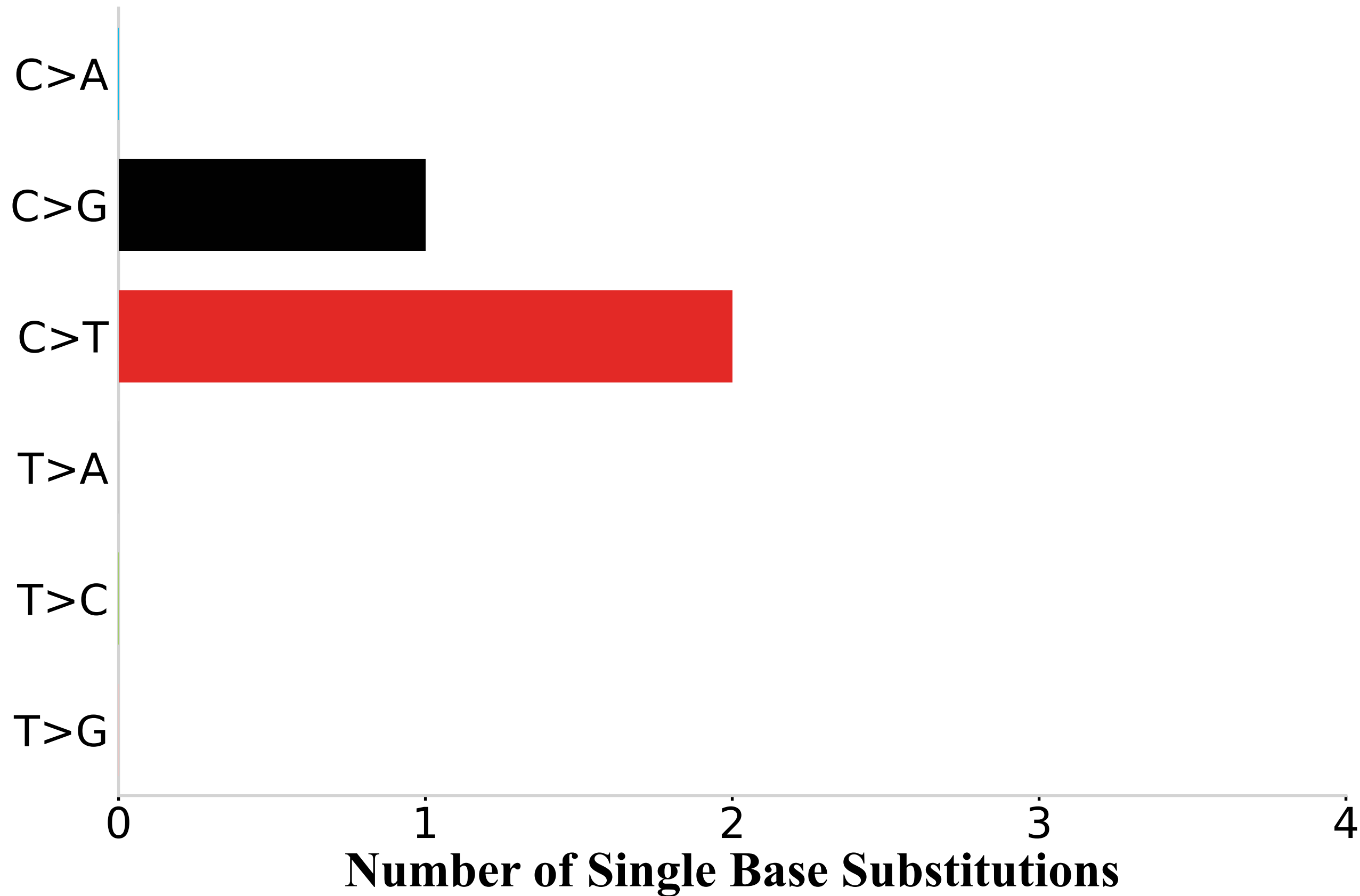
P-0013417-T01-IM5: 2 subs



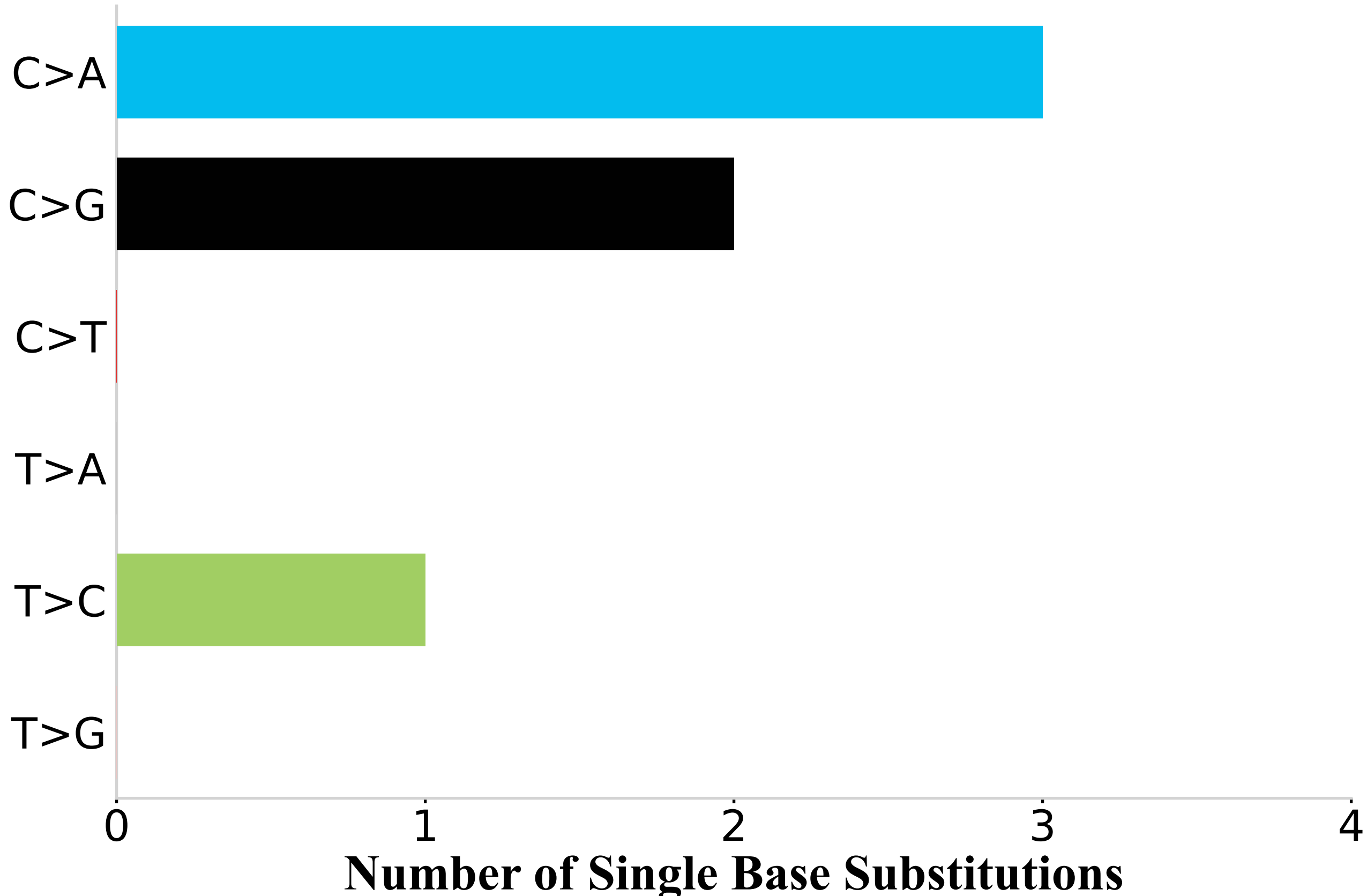
P-0014326-T01-IM6: 2 subs



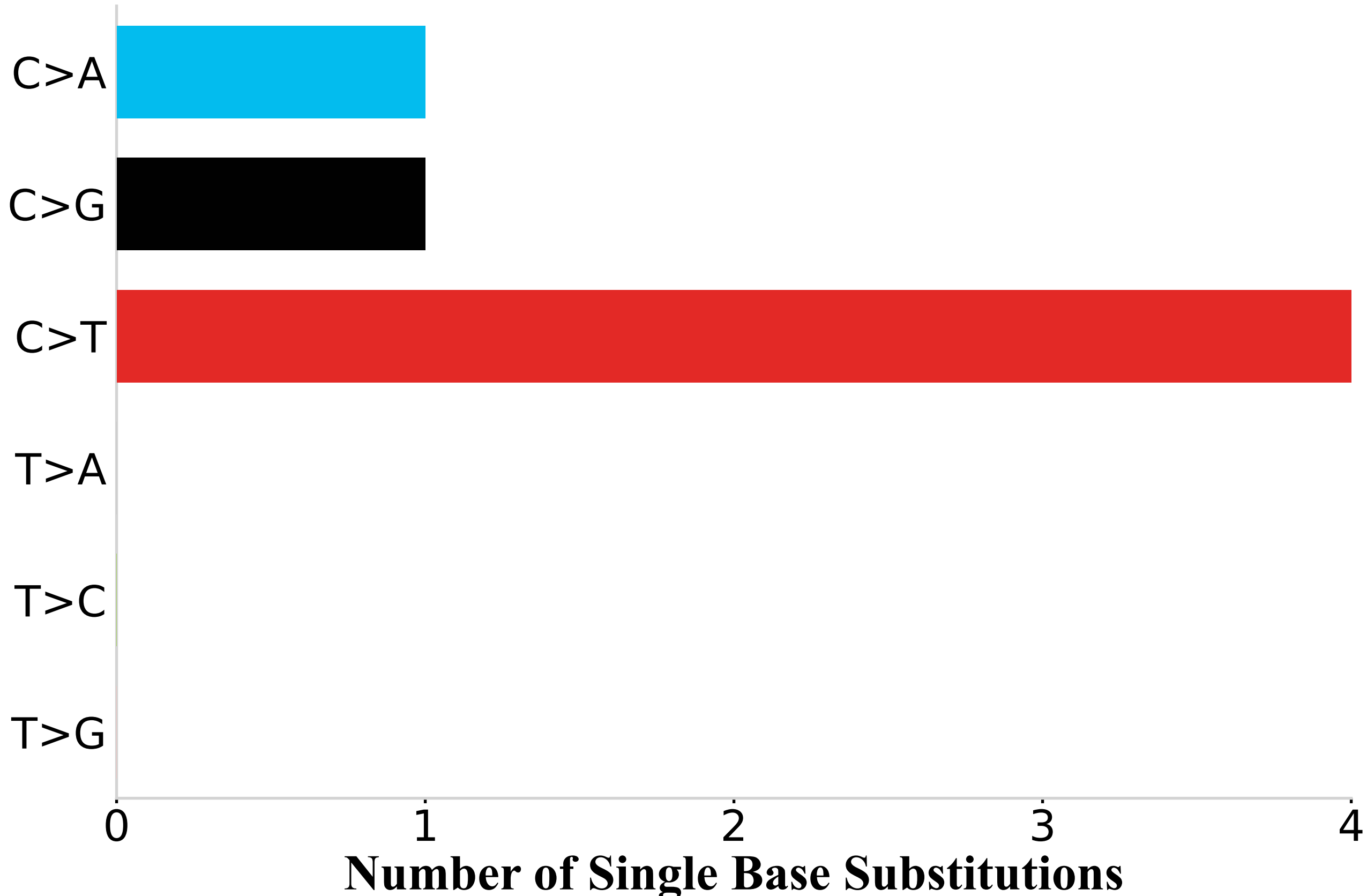
P-0014327-T01-IM6: 3 subs



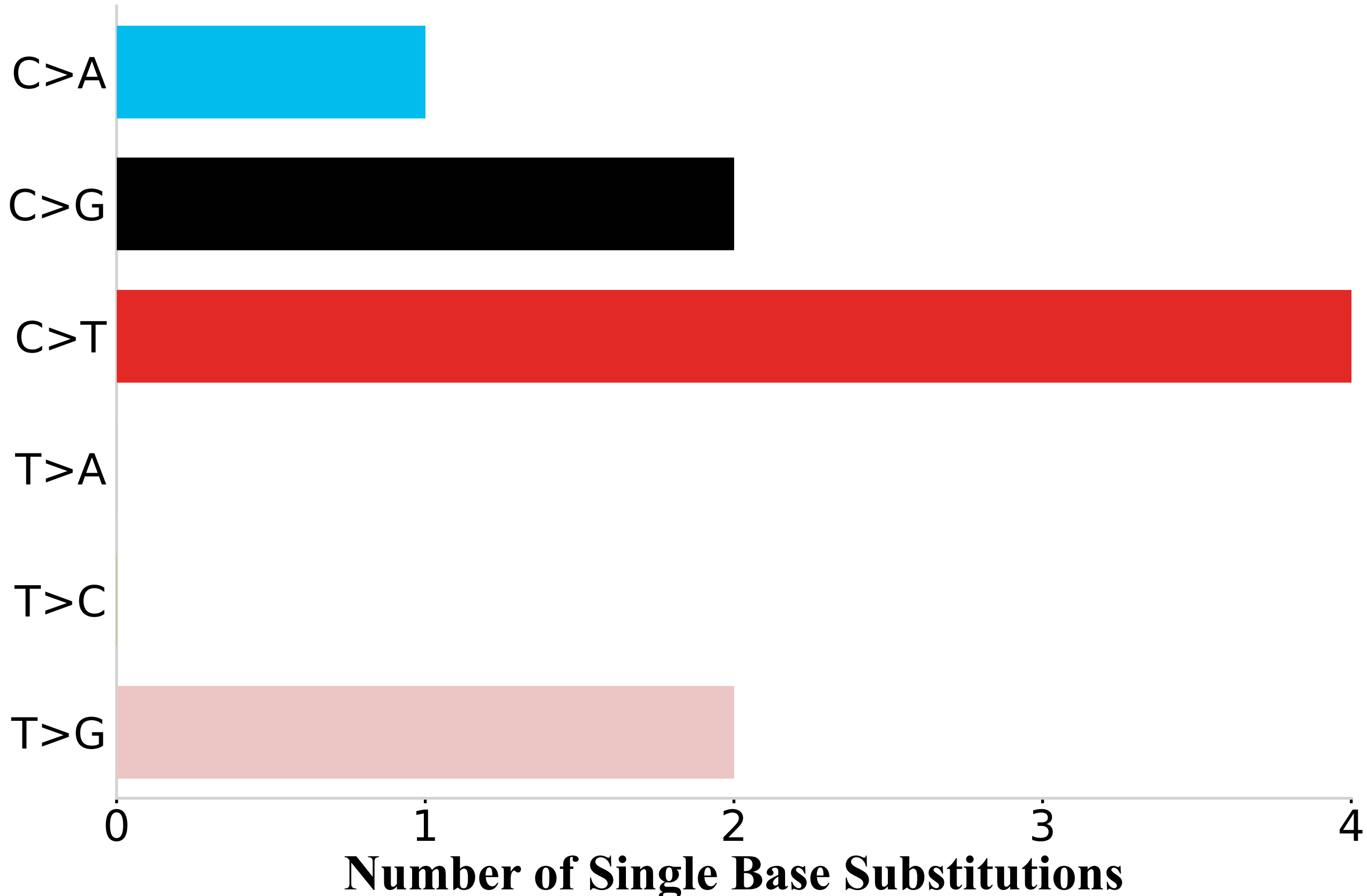
P-0014424-T01-IM6: 6 subs



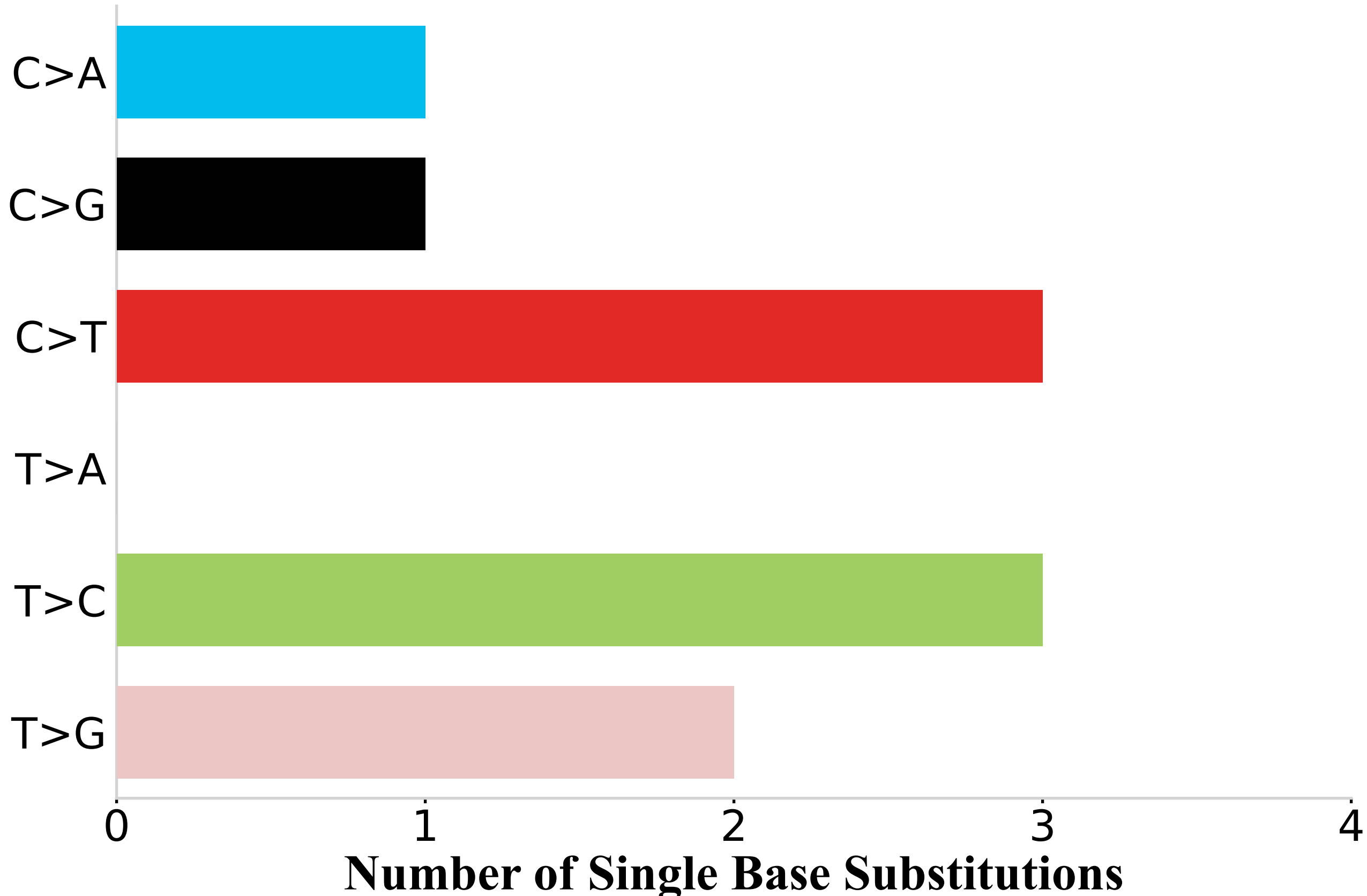
P-0014504-T01-IM6: 6 subs



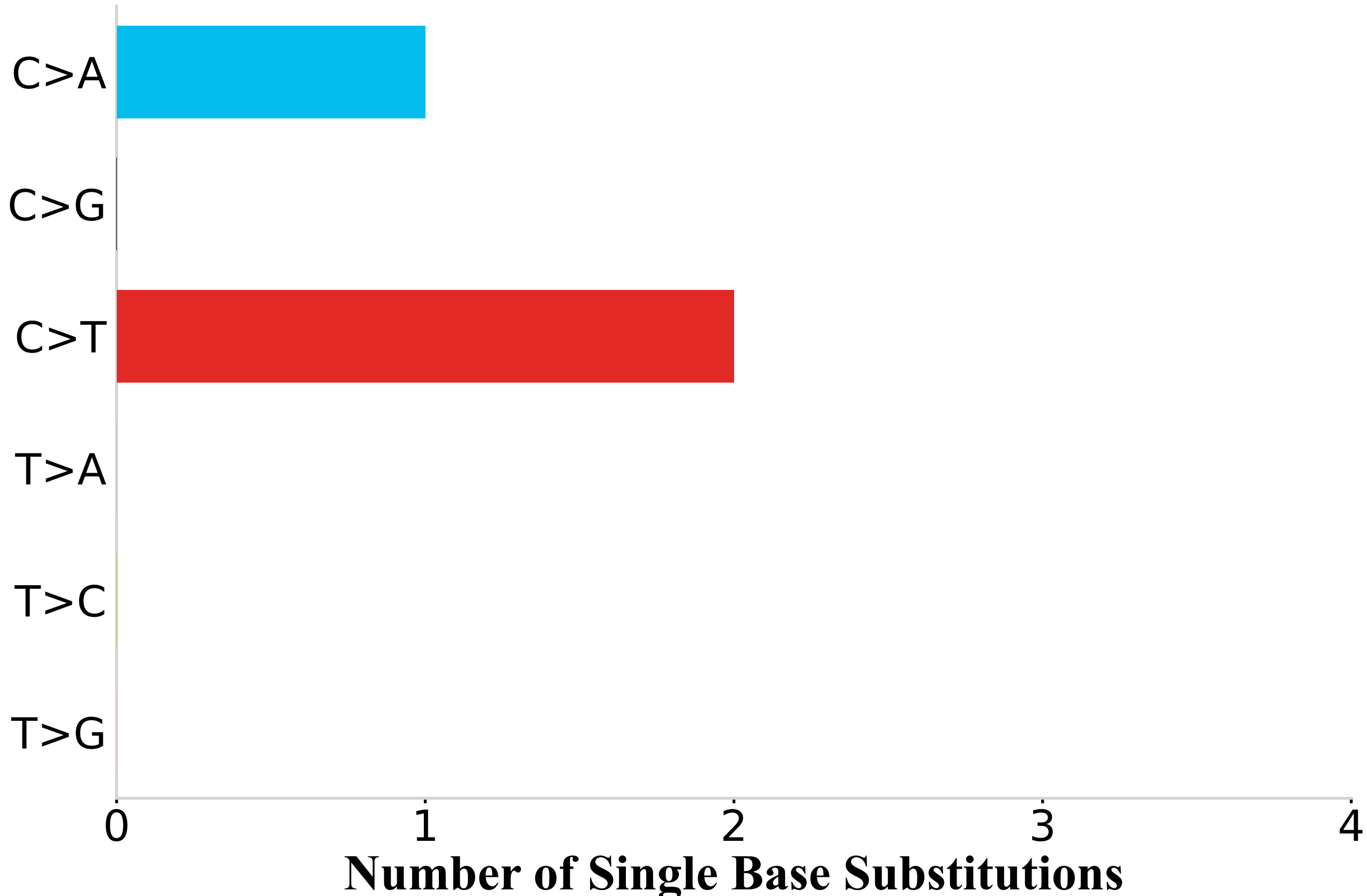
P-0015202-T01-IM6: 9 subs



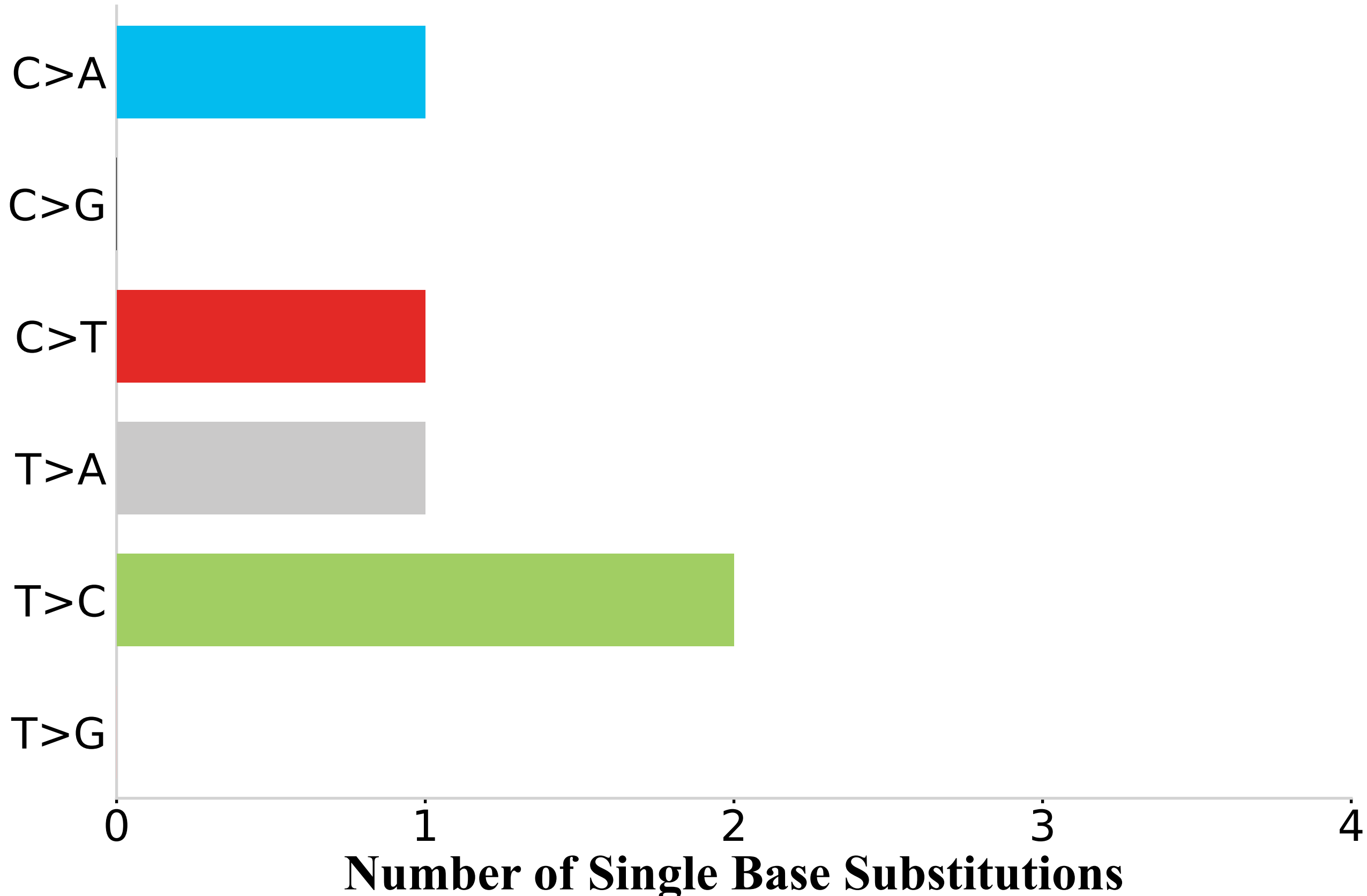
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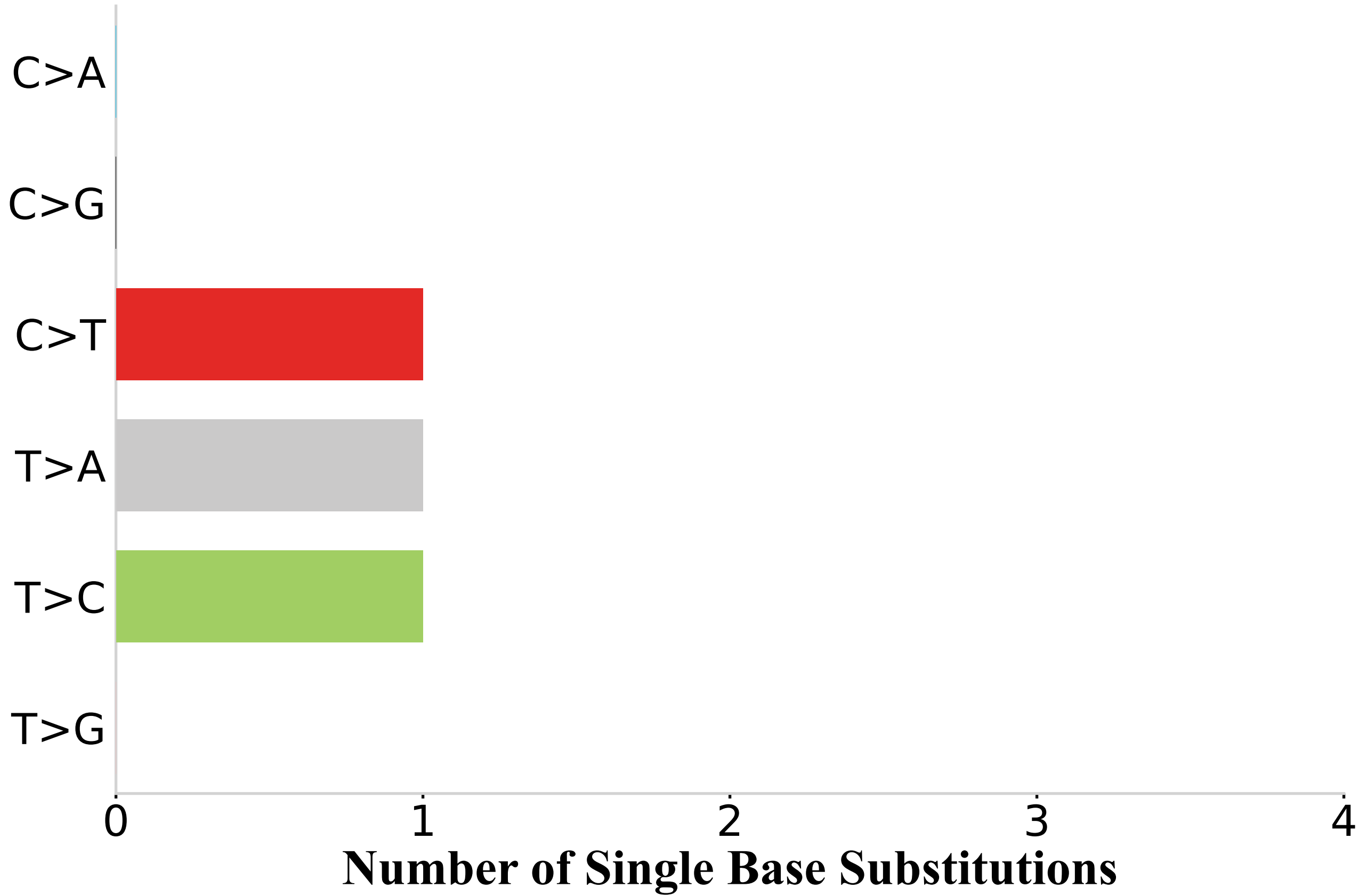
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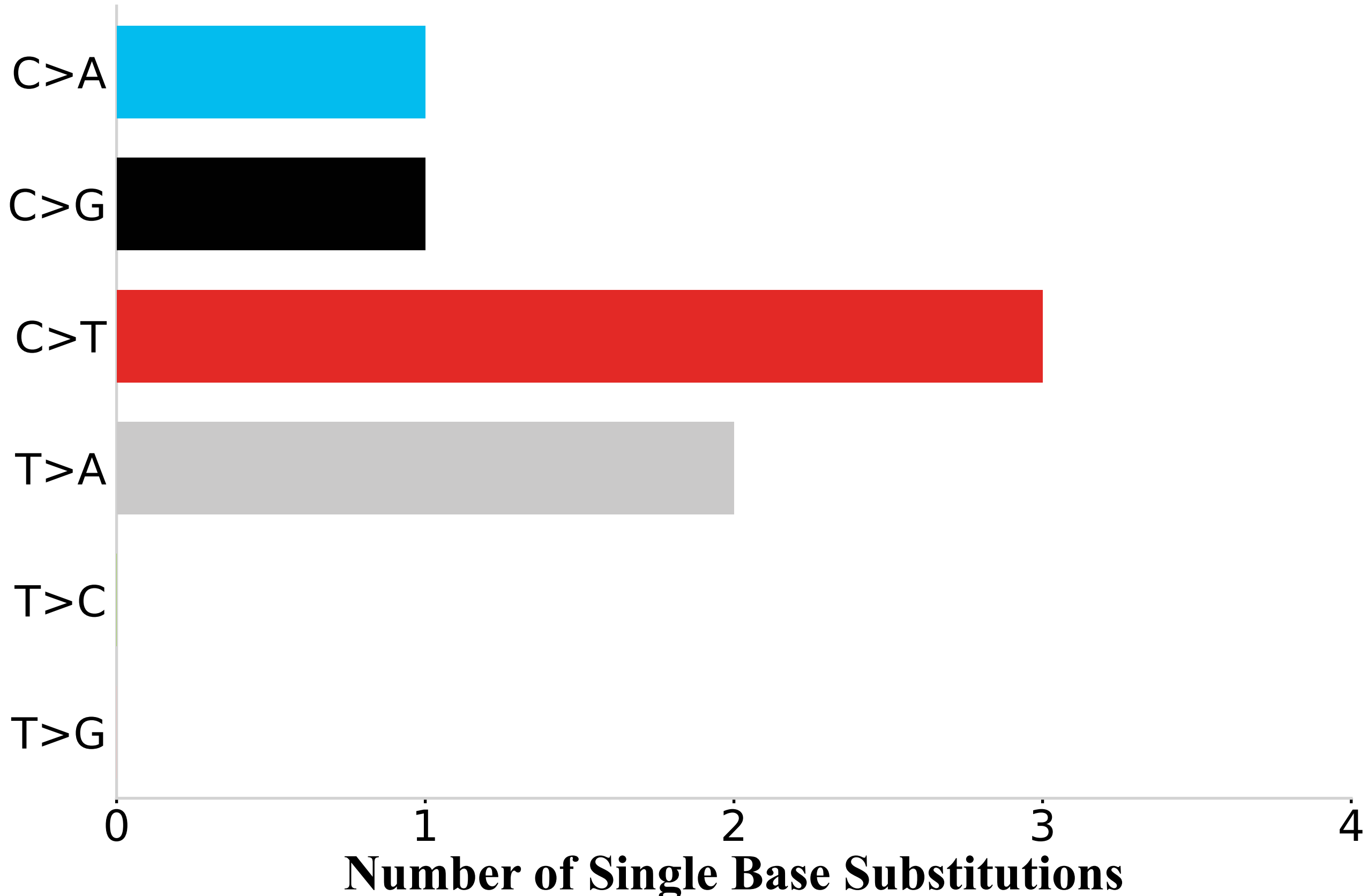
P-0016008-T01-IM6: 5 subs



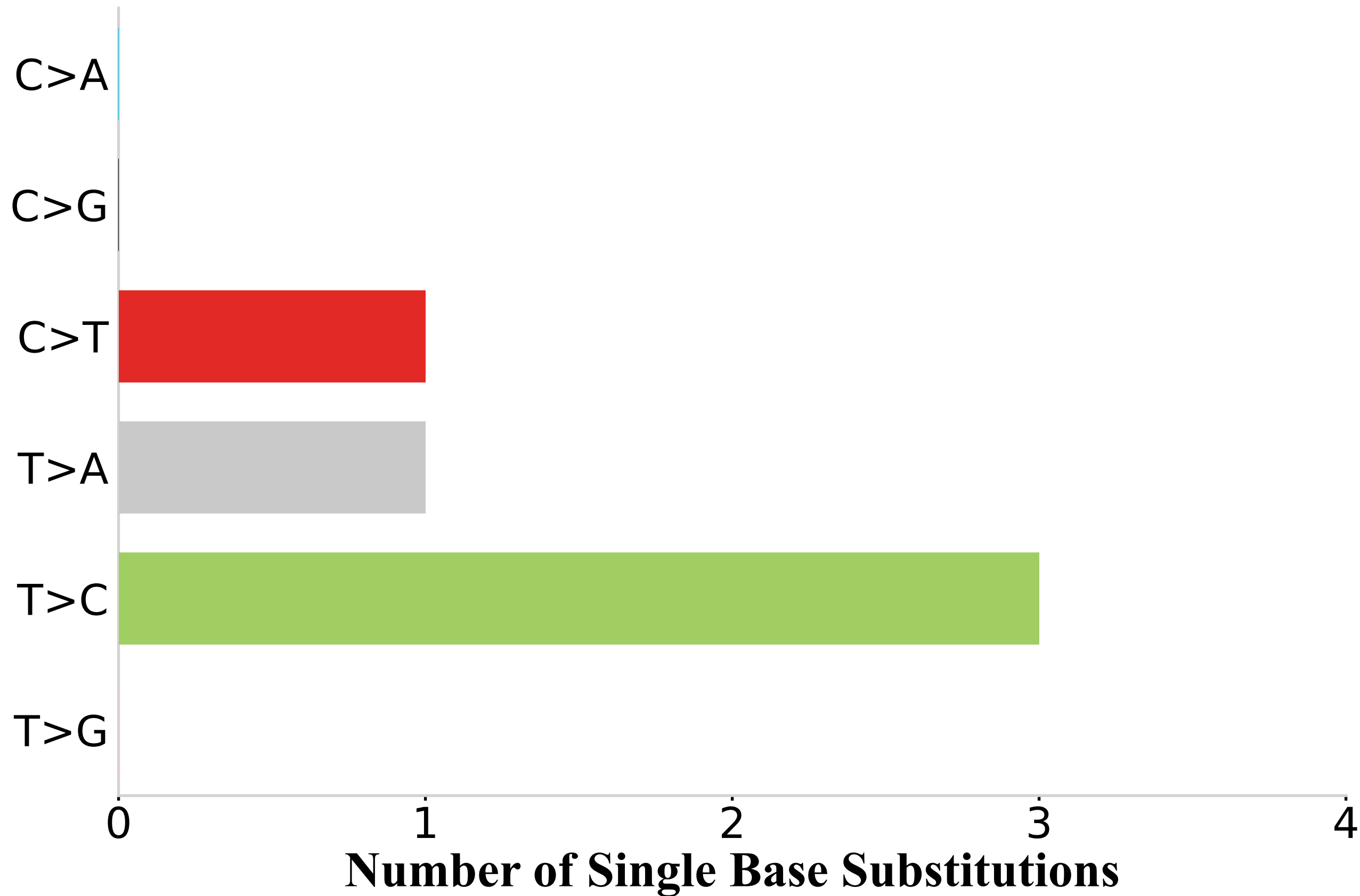
P-0016020-T01-IM6: 3 subs



P-0016187-T01-IM6: 7 subs



P-0016233-T01-IM6: 5 subs



P-0016294-T01-IM6: 0 subs

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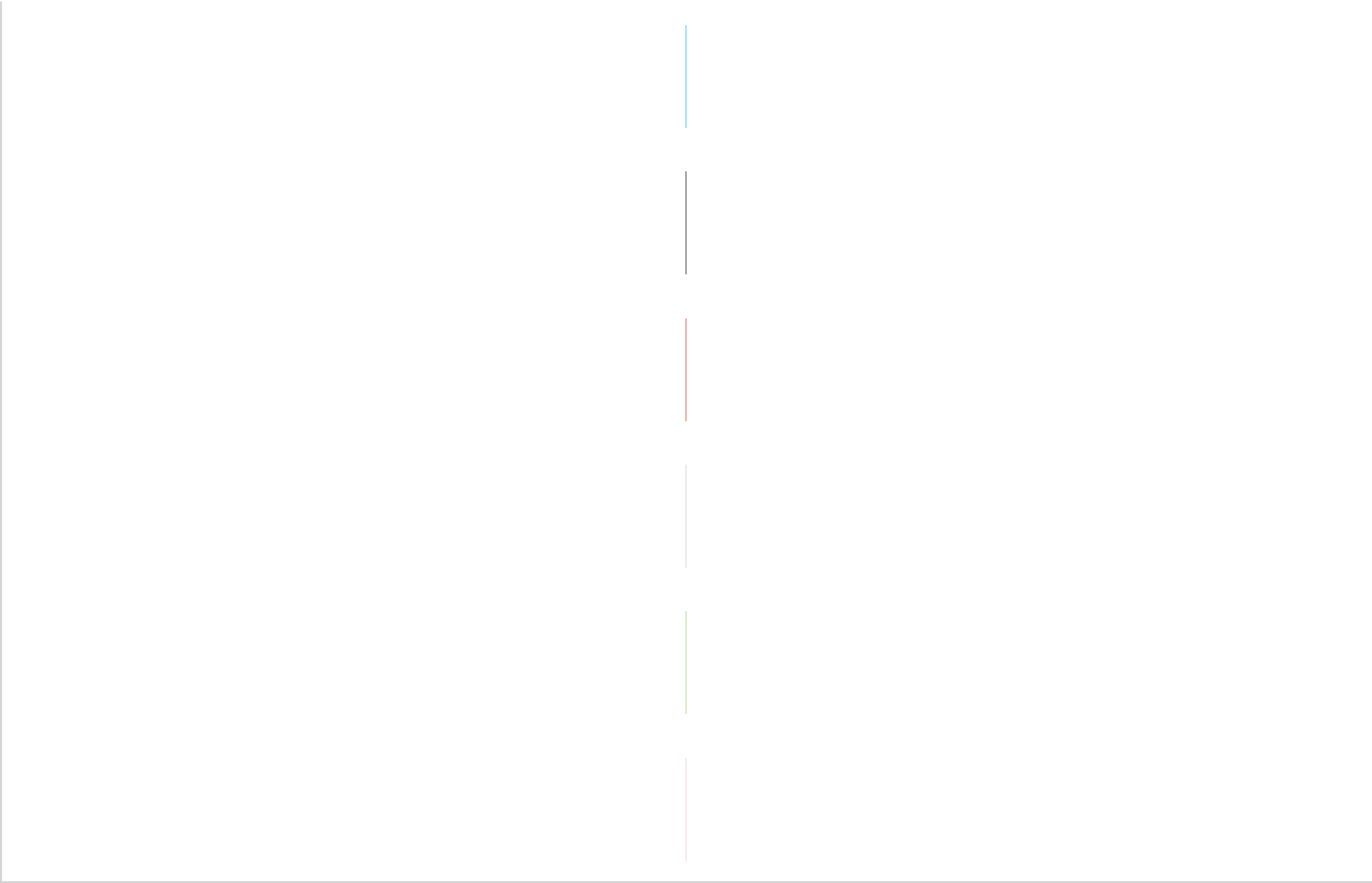
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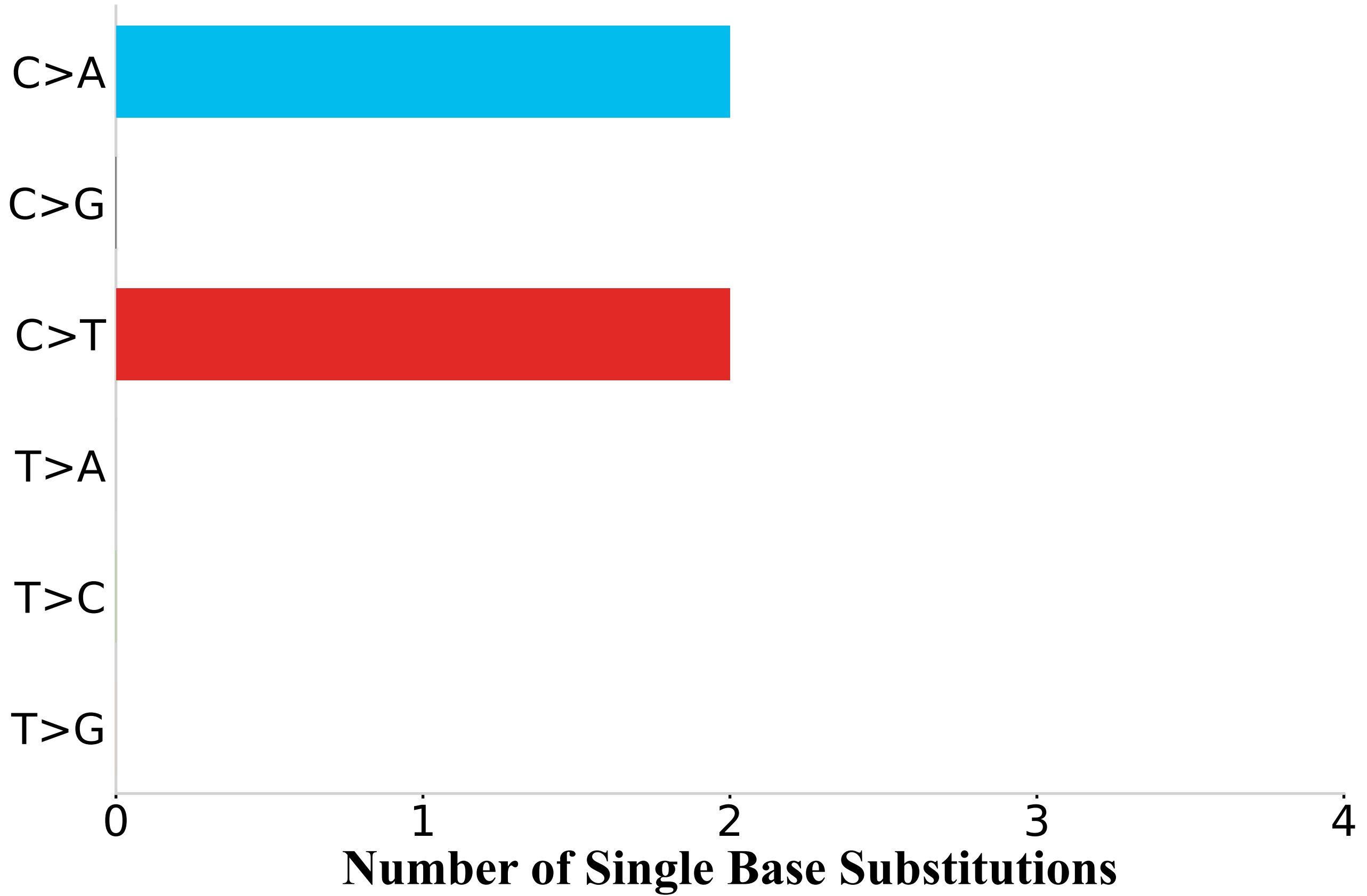
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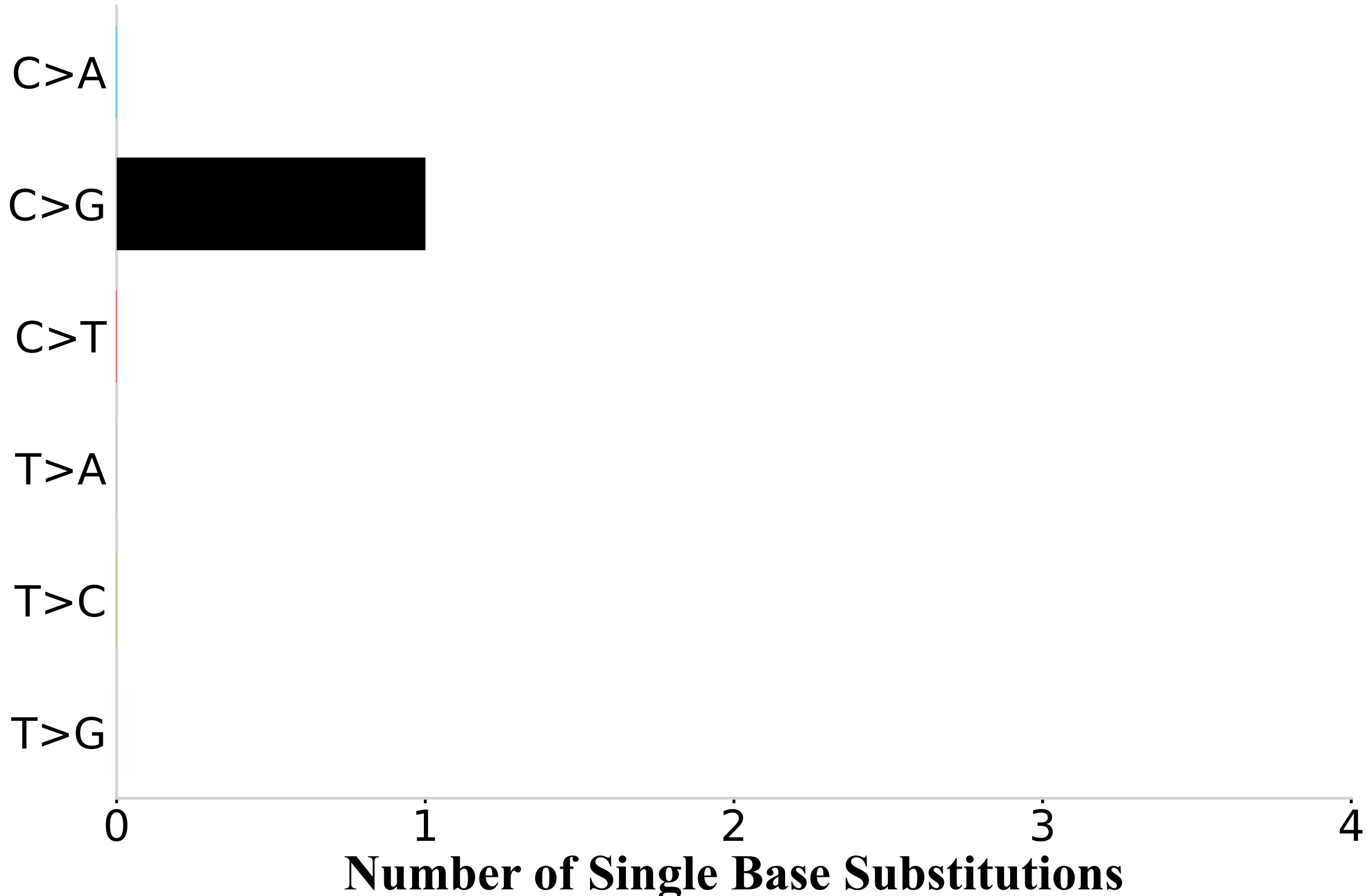
Number of Single Base Substitutions



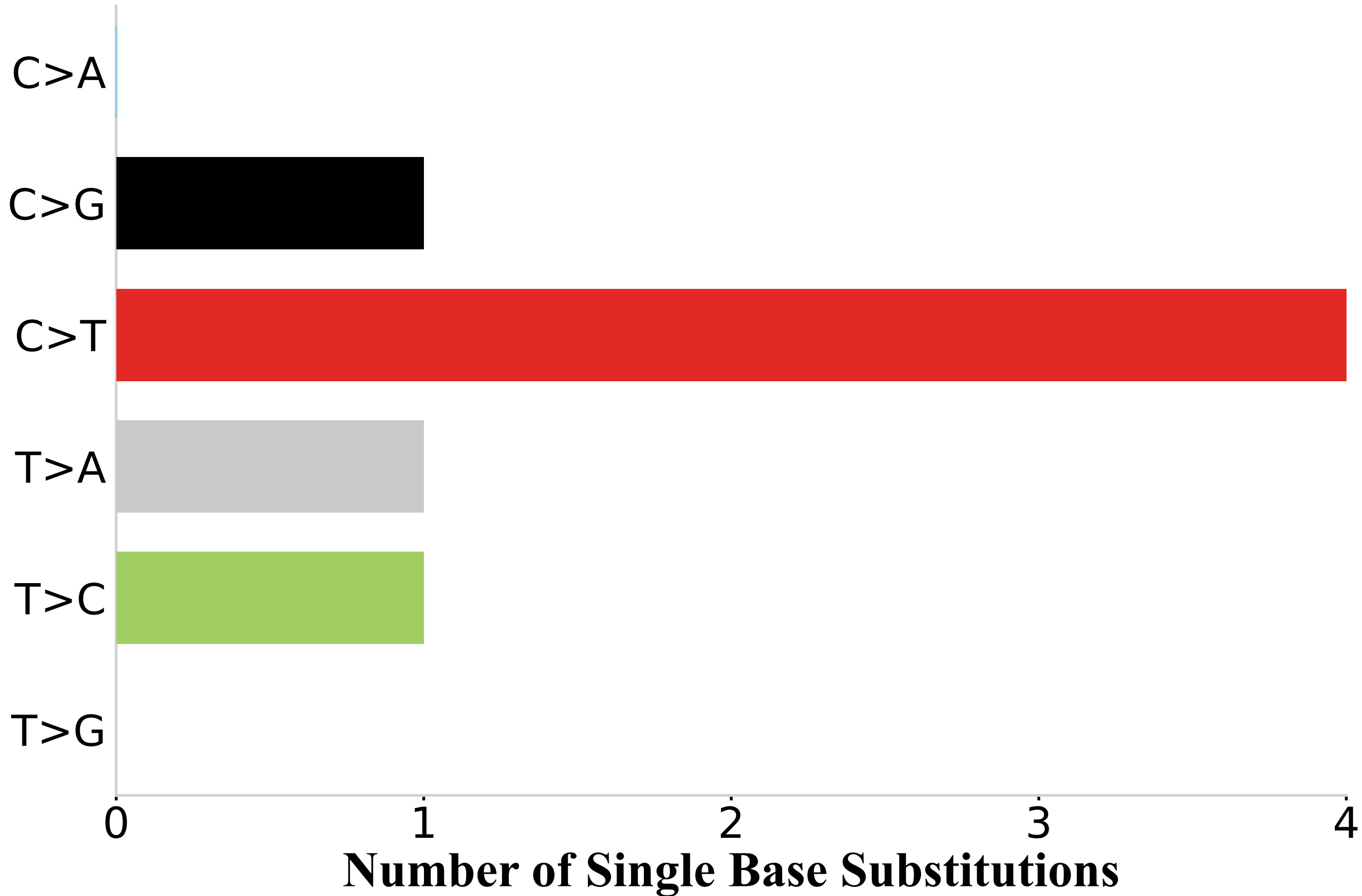
P-0016311-T01-IM6: 4 subs



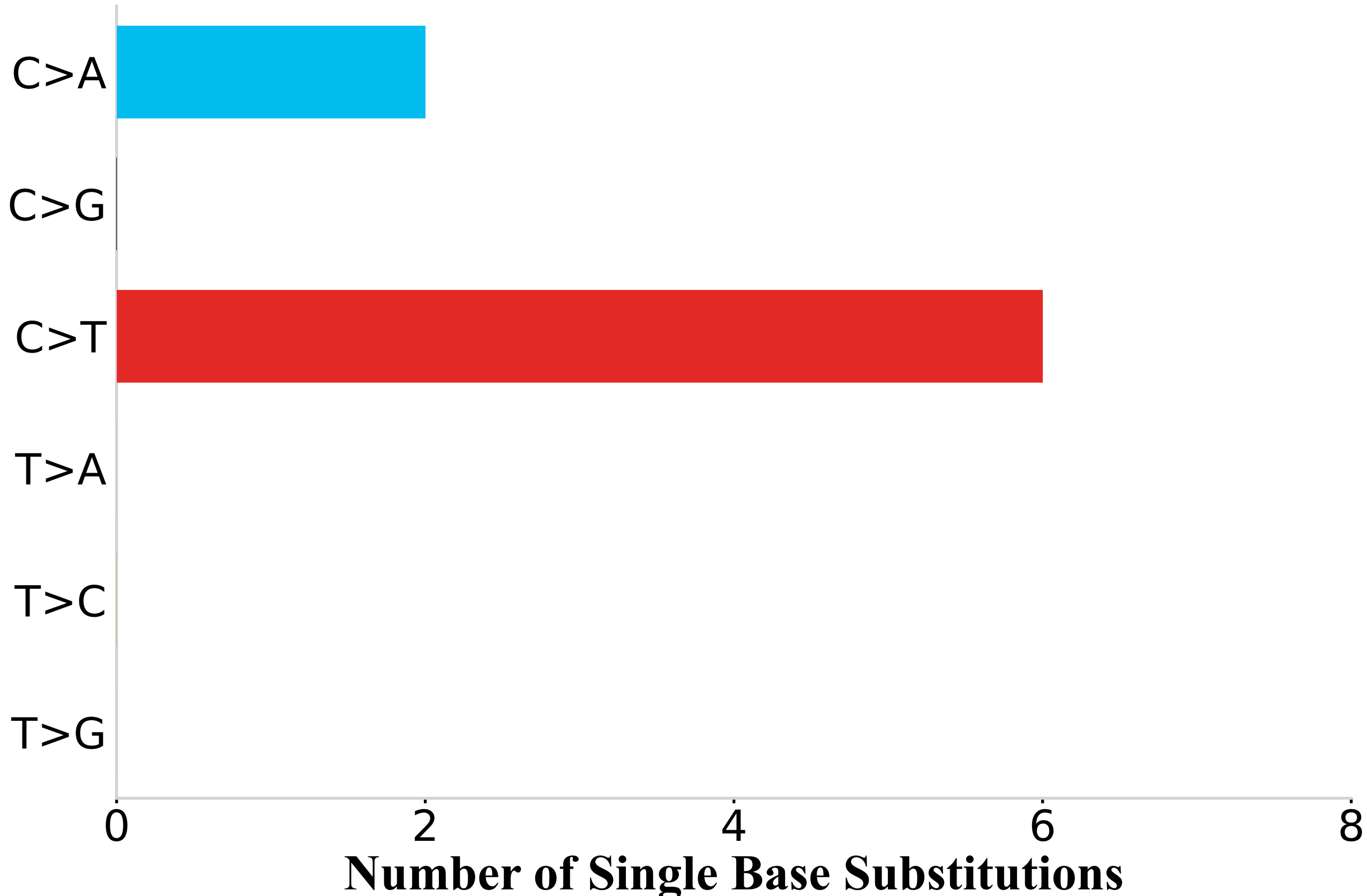
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P-0017167-T01-IM6: 7 subs



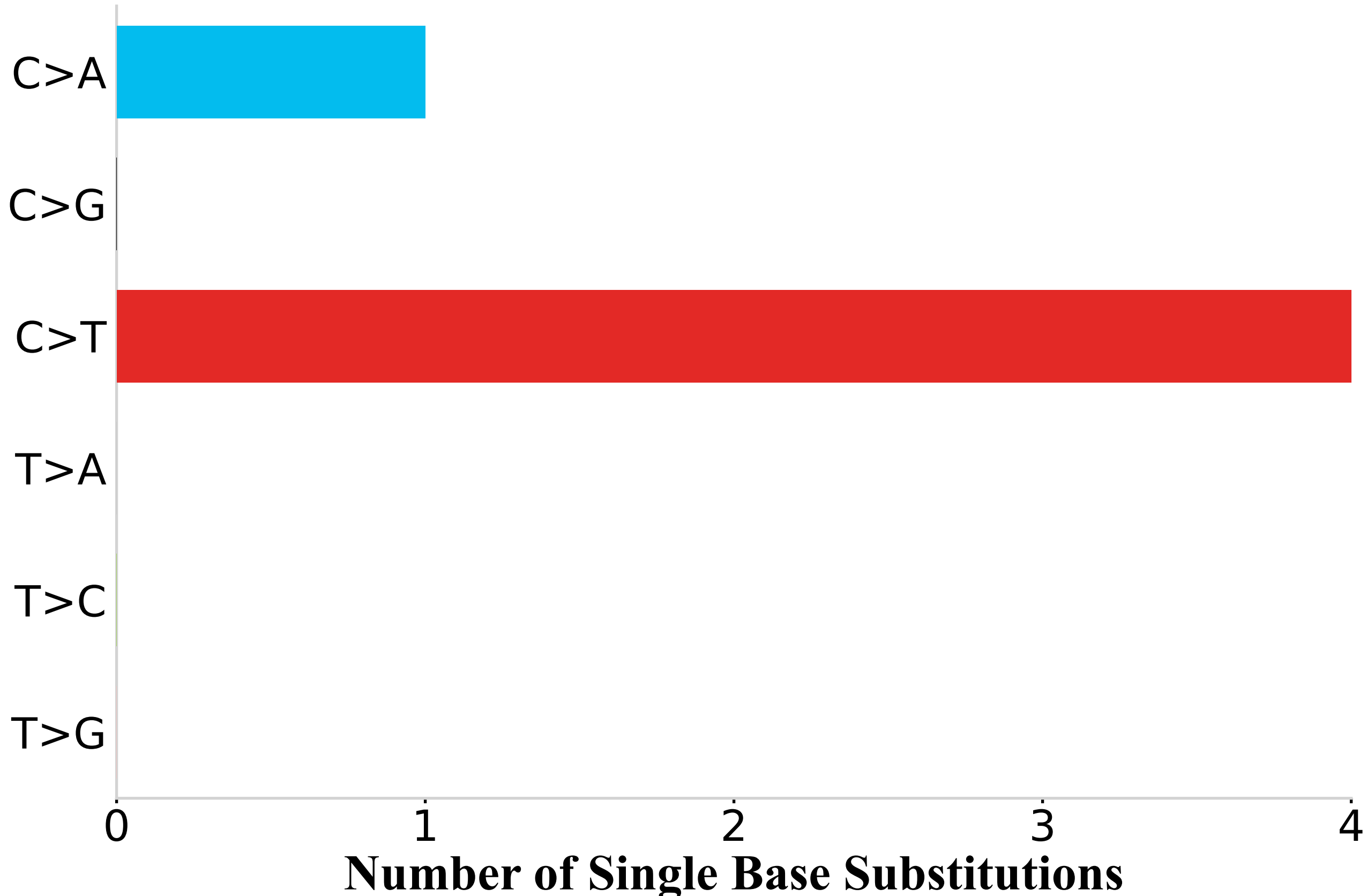
P-0017503-T01-IM6: 8 subs



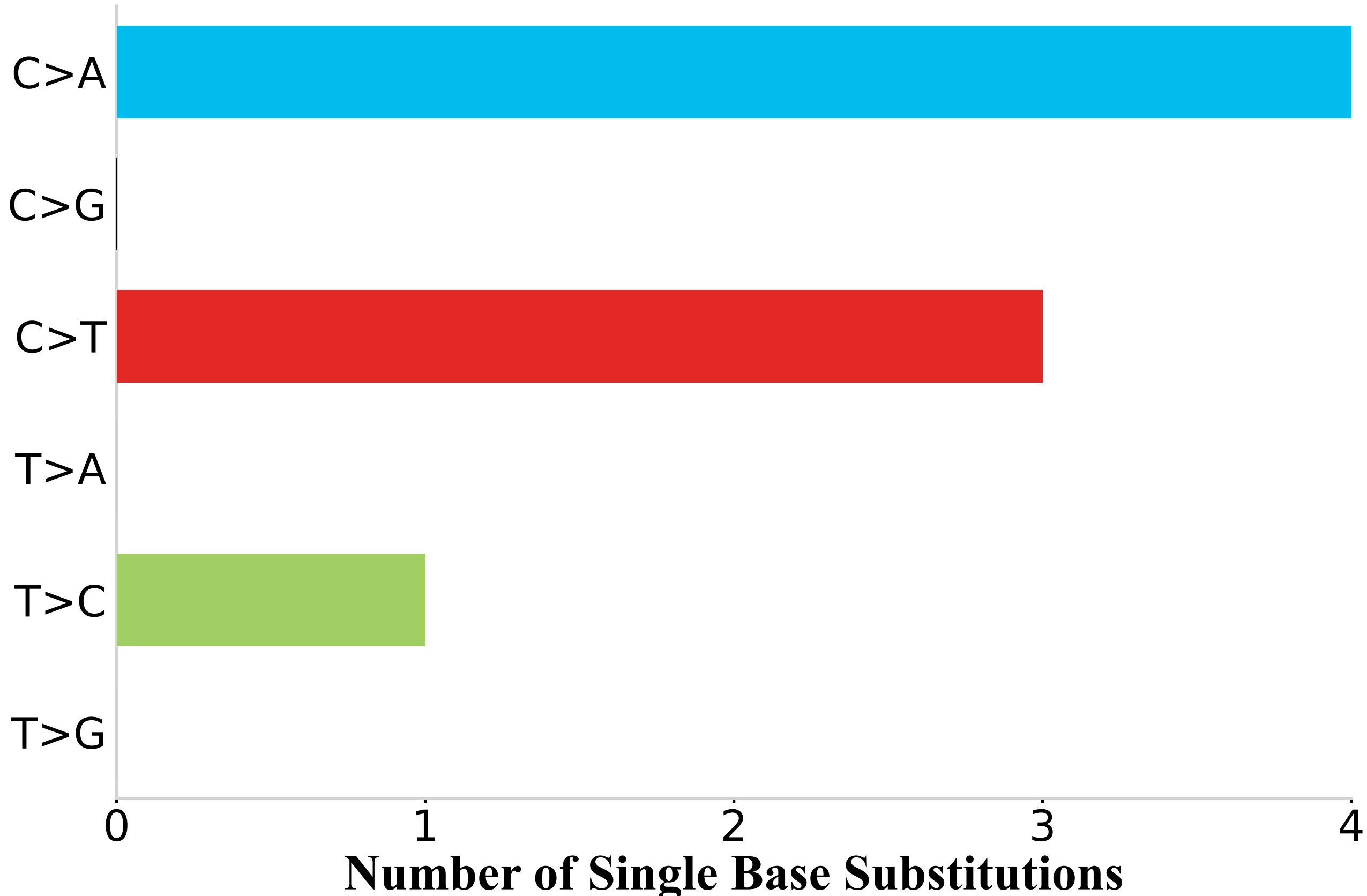
P-0017972-T01-IM6: 2 subs



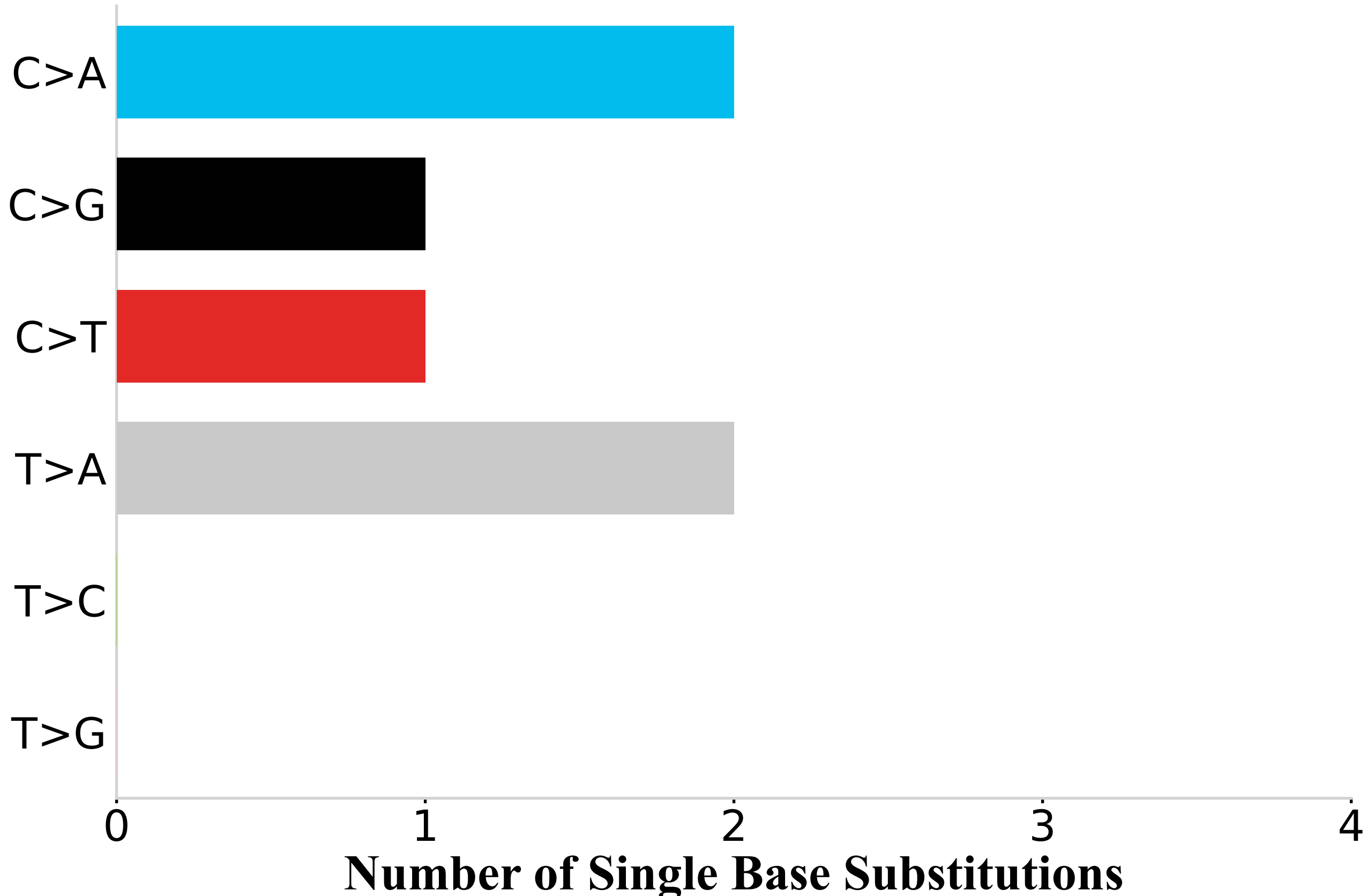
P-0018340-T01-IM6: 5 subs



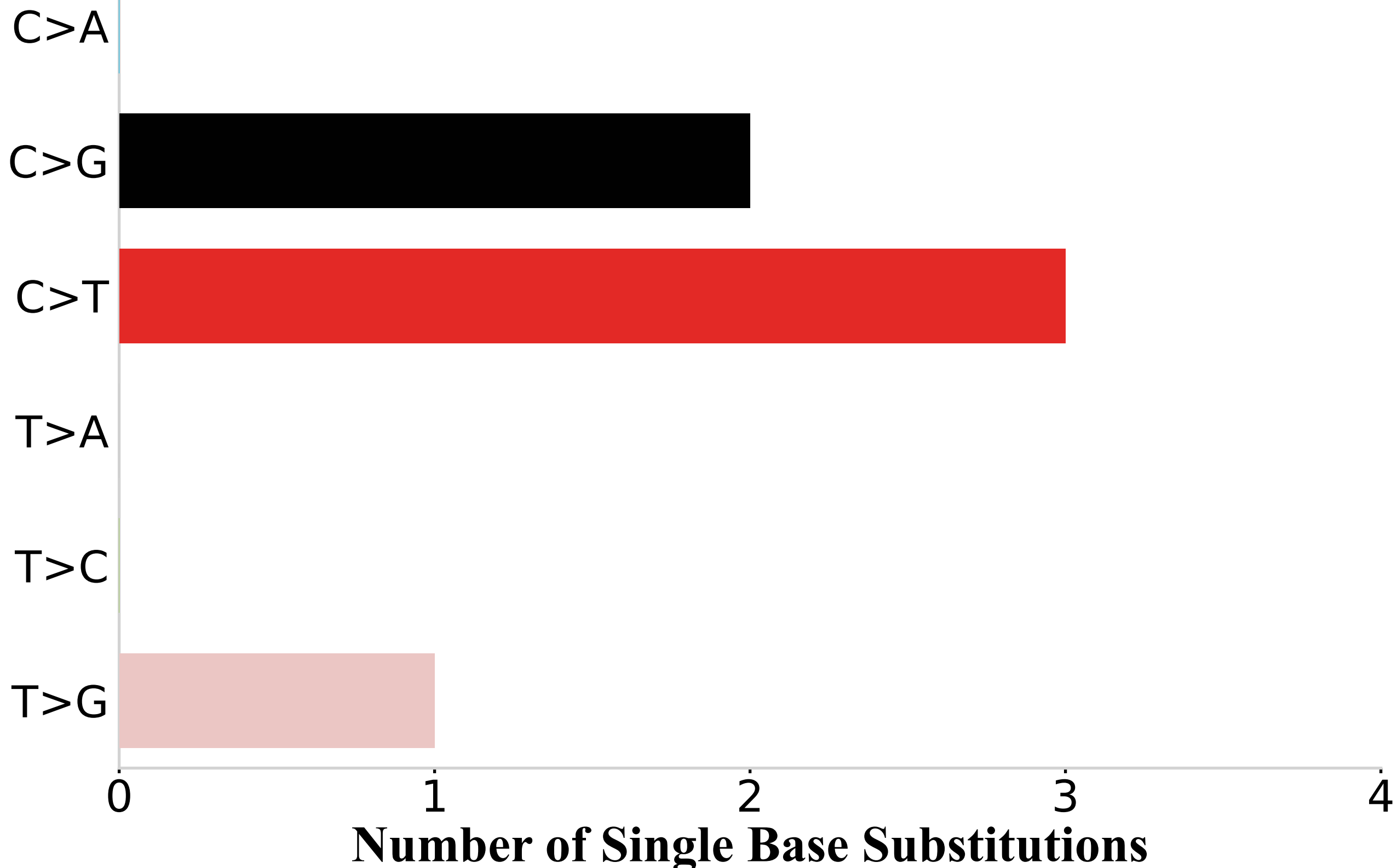
P-0018439-T01-IM6: 8 subs



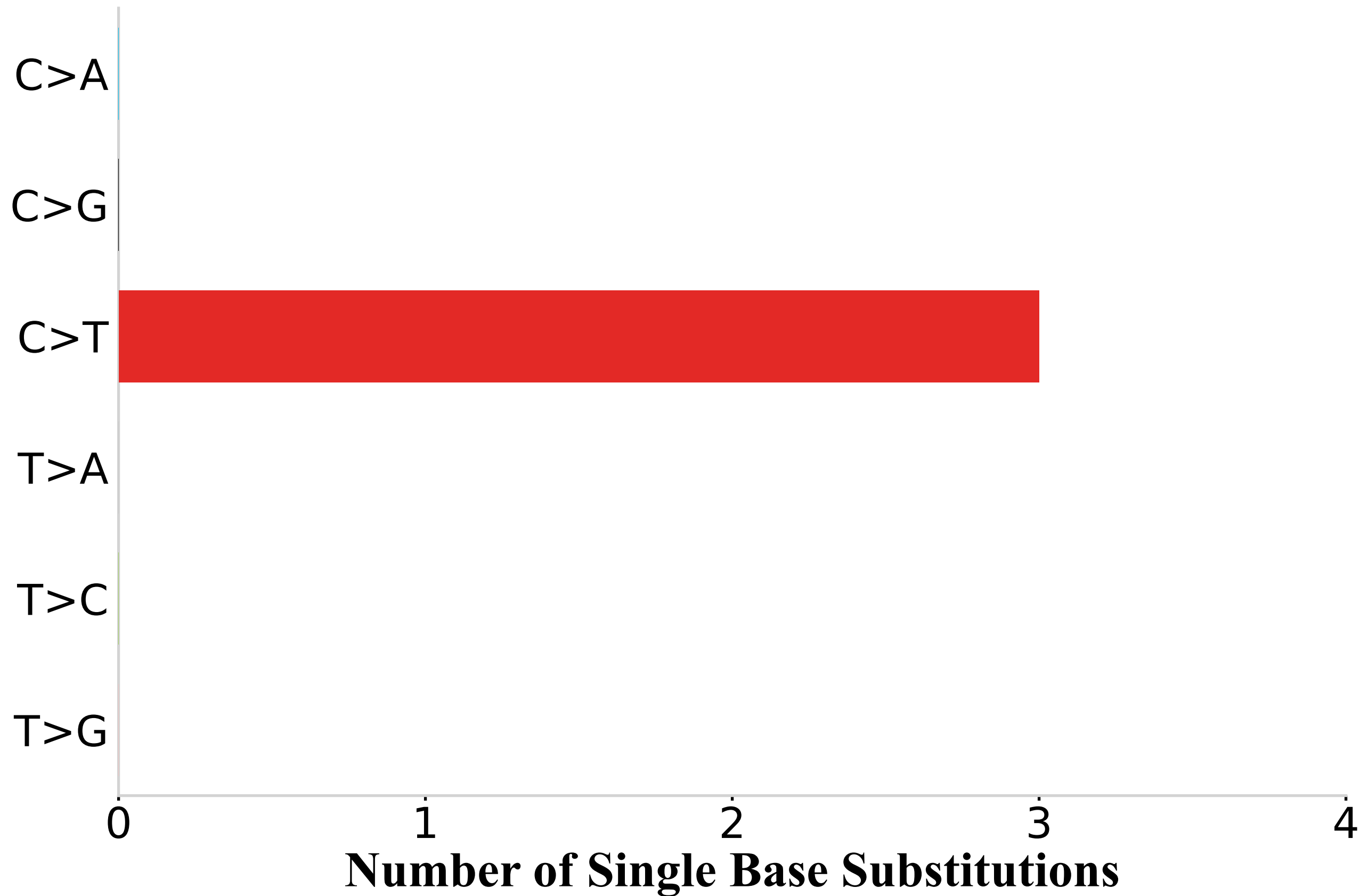
P-0018464-T01-IM6: 6 subs



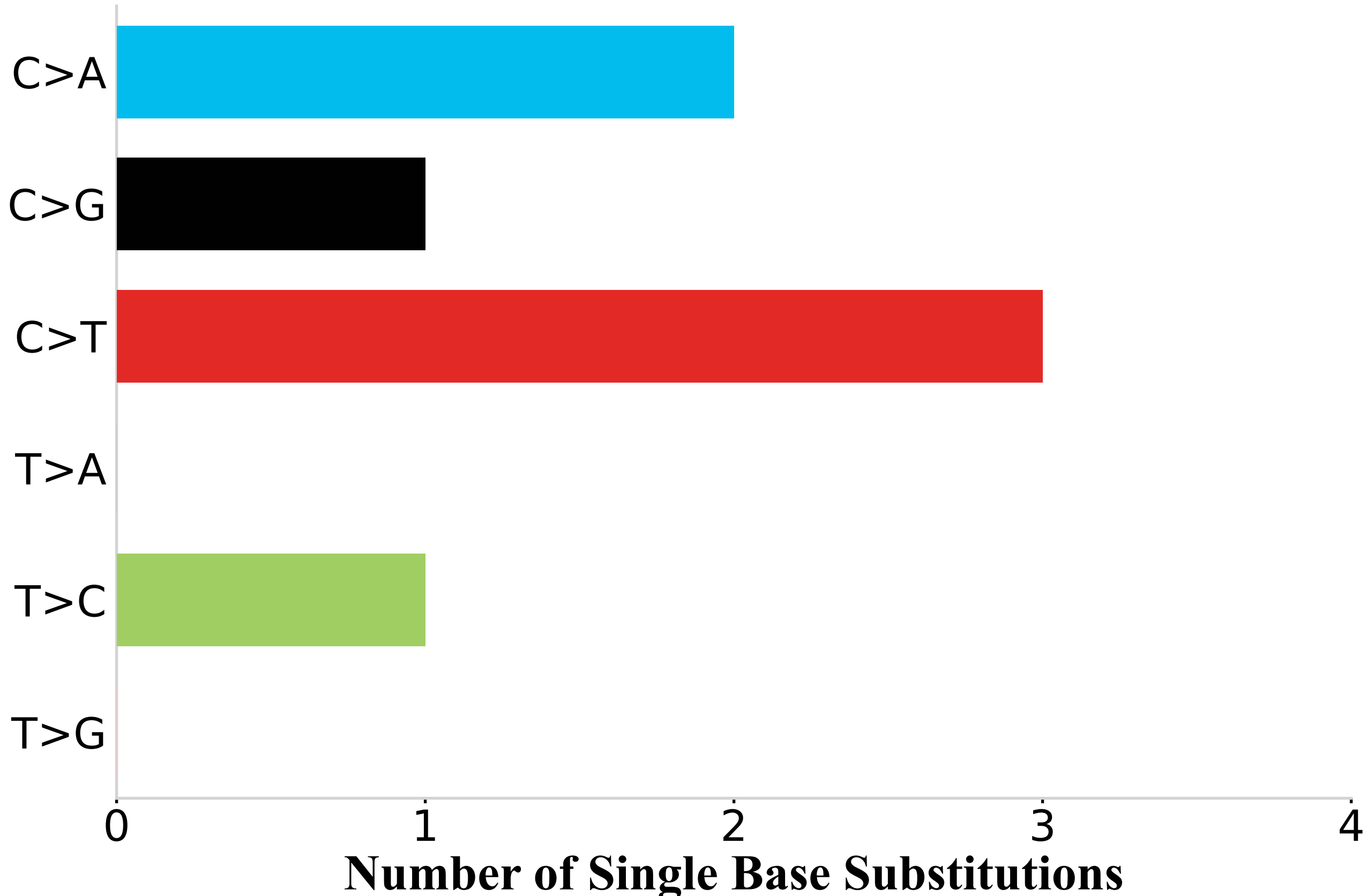
P-0018568-T01-IM6: 6 subs



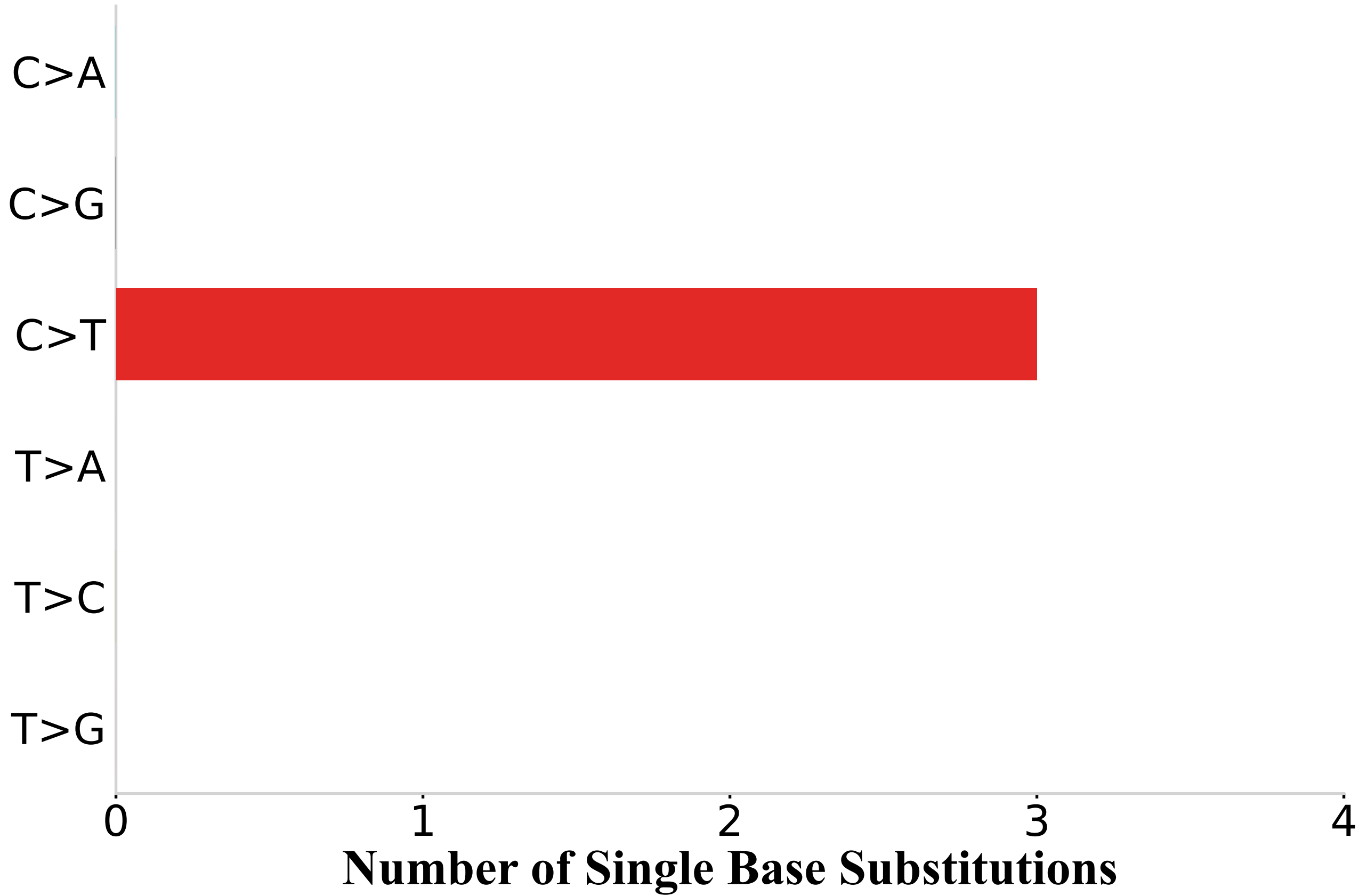
P-0018591-T01-IM6: 3 subs



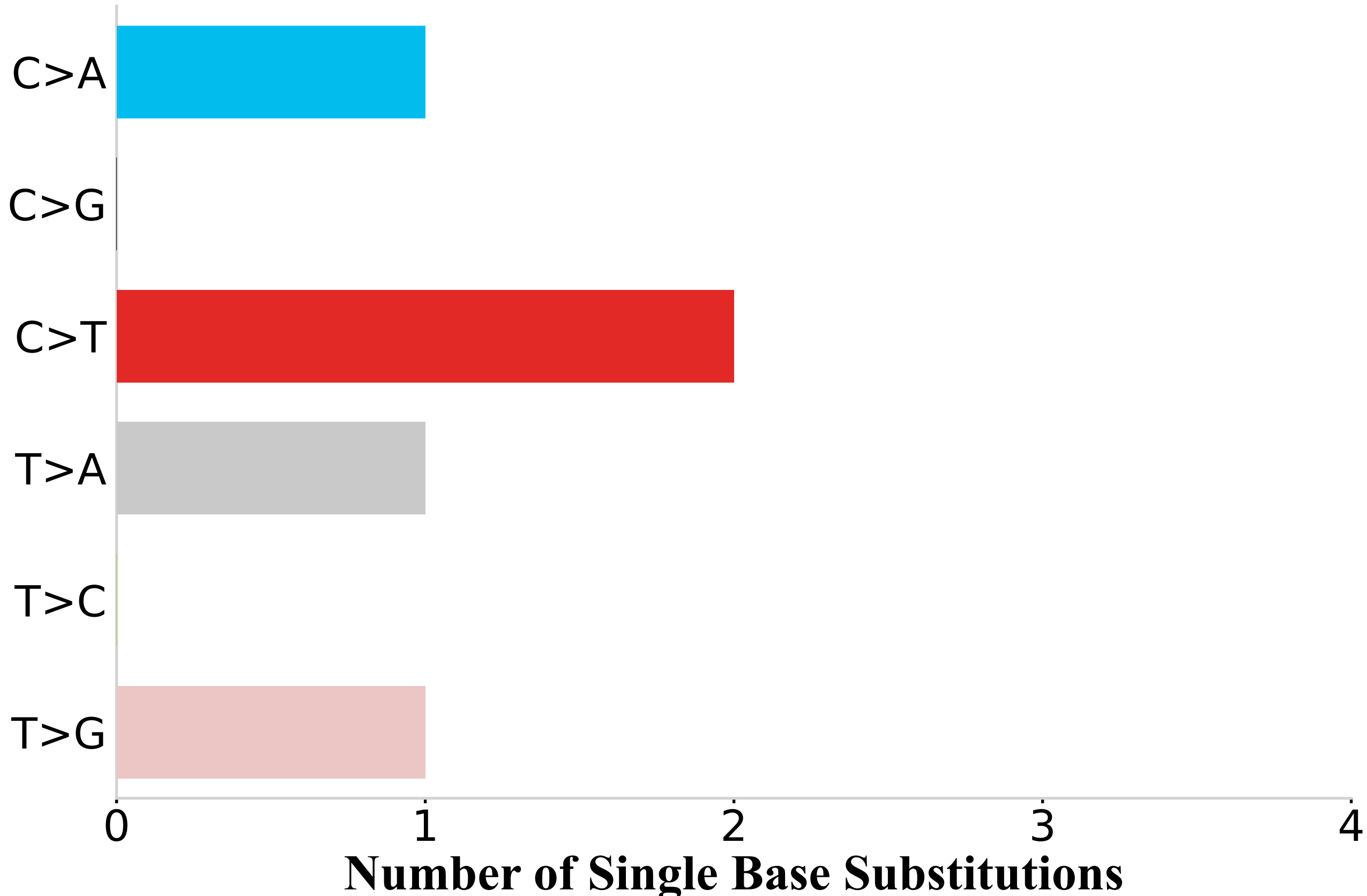
P-0018683-T01-IM6: 7 subs



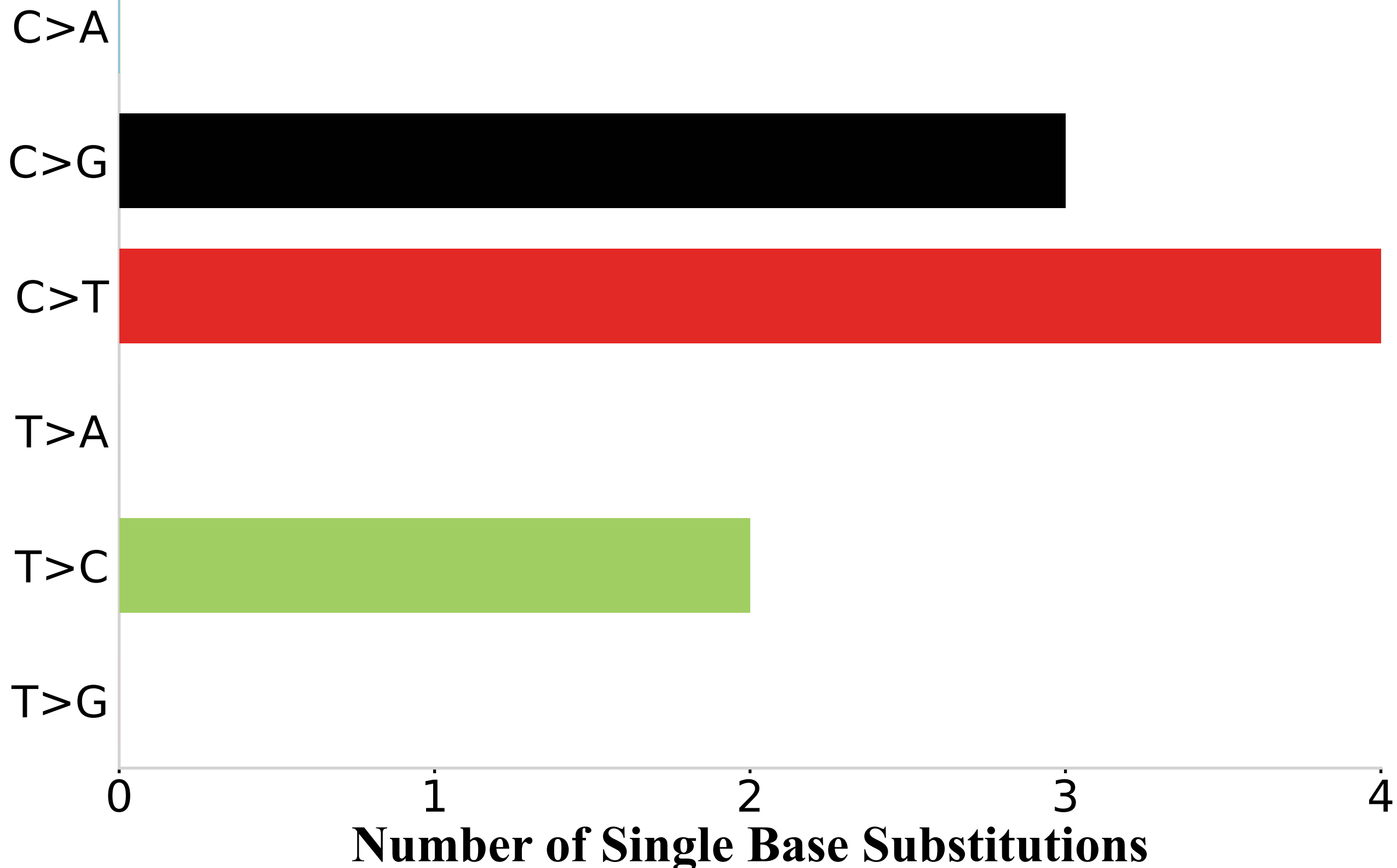
P-0018710-T01-IM6: 3 subs



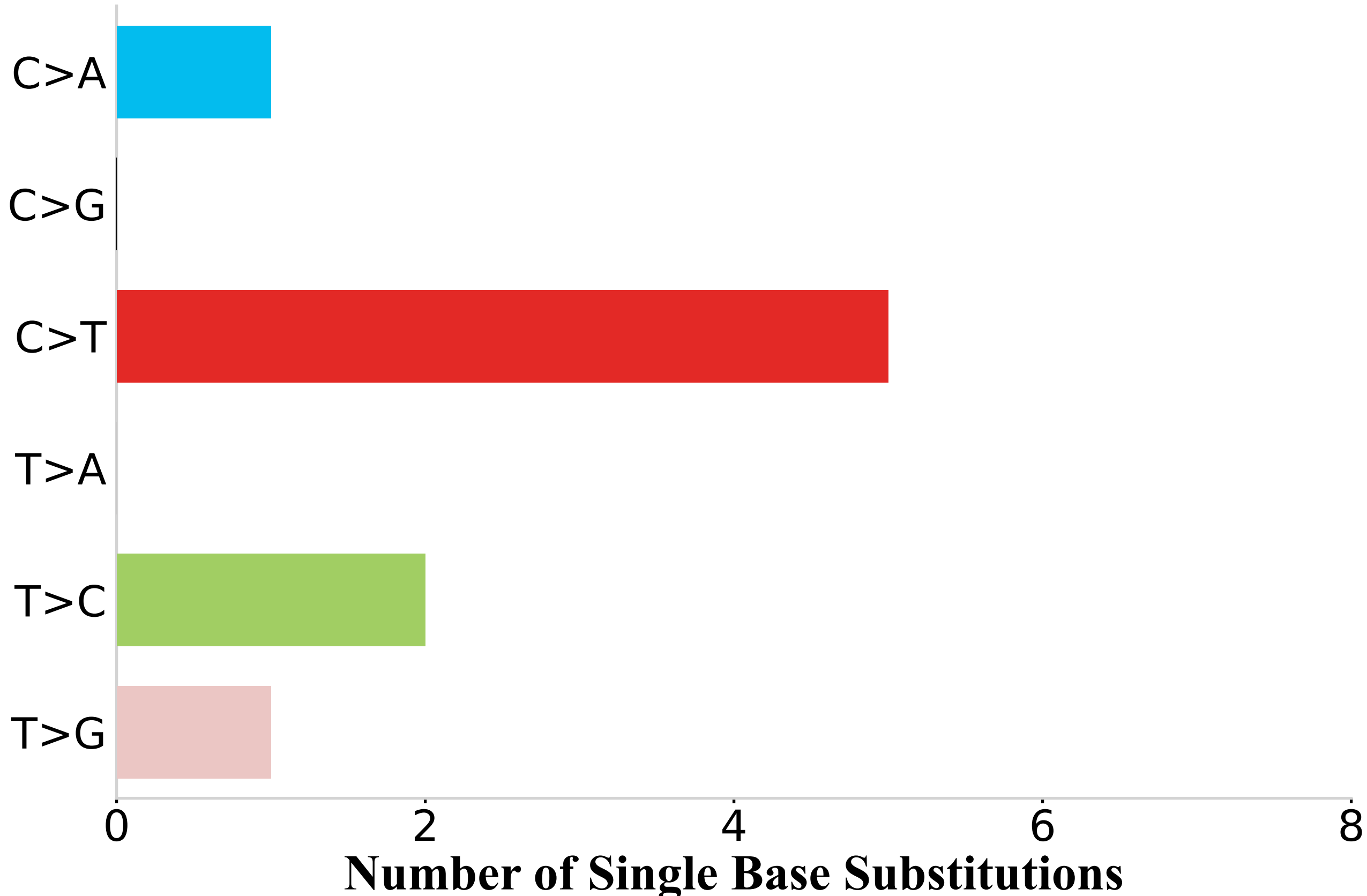
P-0018771-T03-IM6: 5 subs



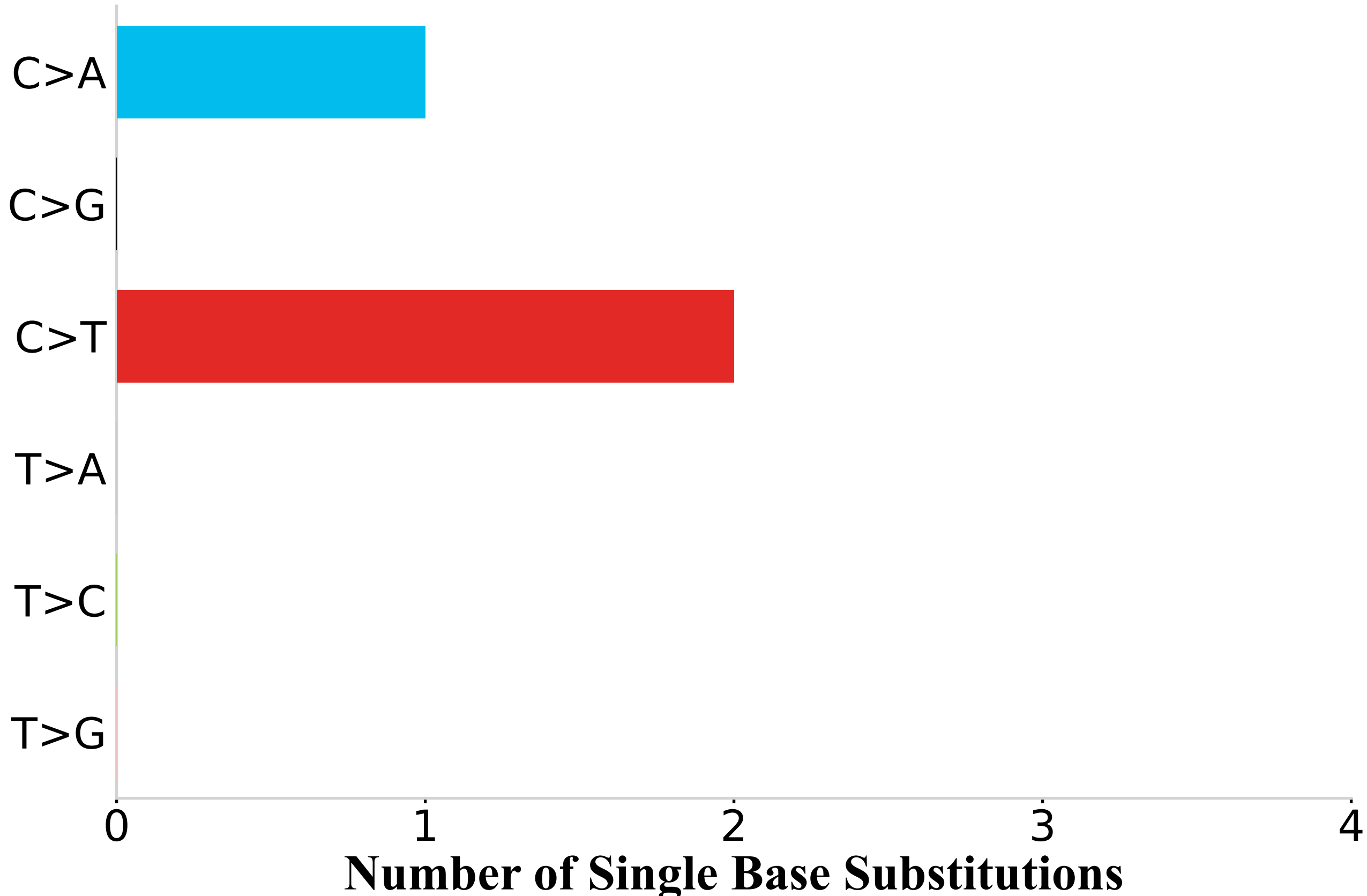
P-0018800-T01-IM6: 9 subs



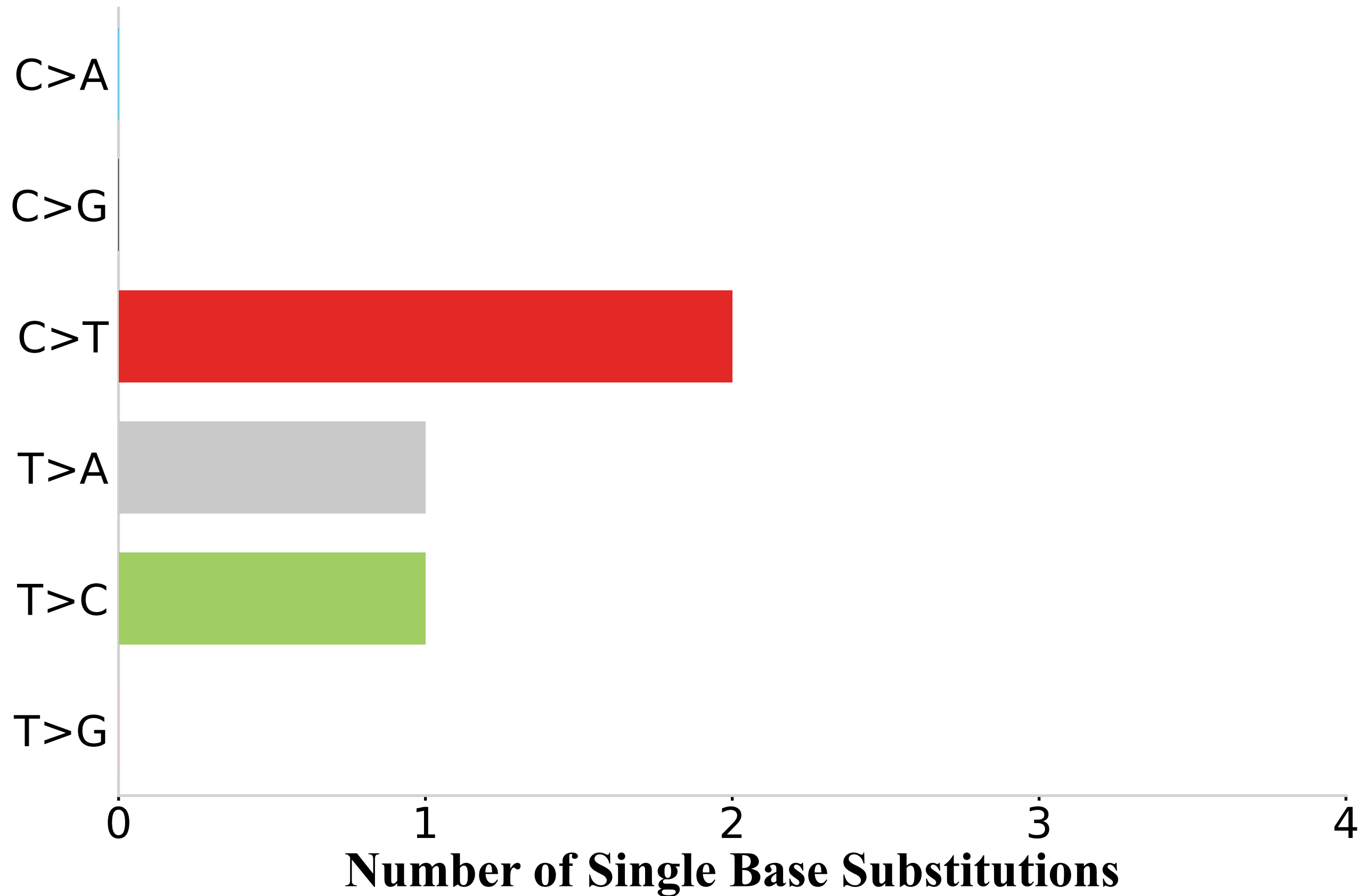
P-0018892-T01-IM6: 9 subs



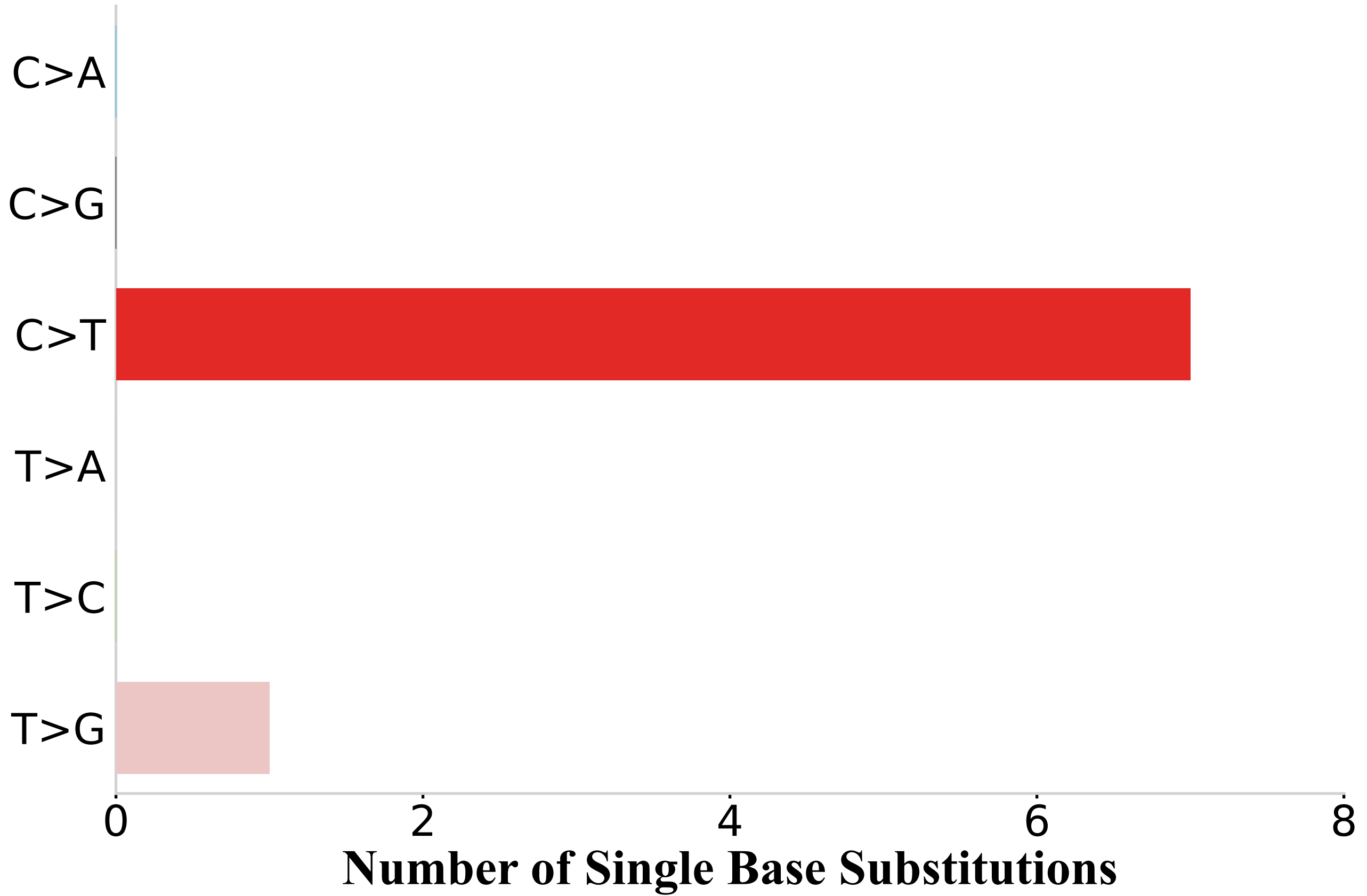
P-0018921-T01-IM6: 3 subs



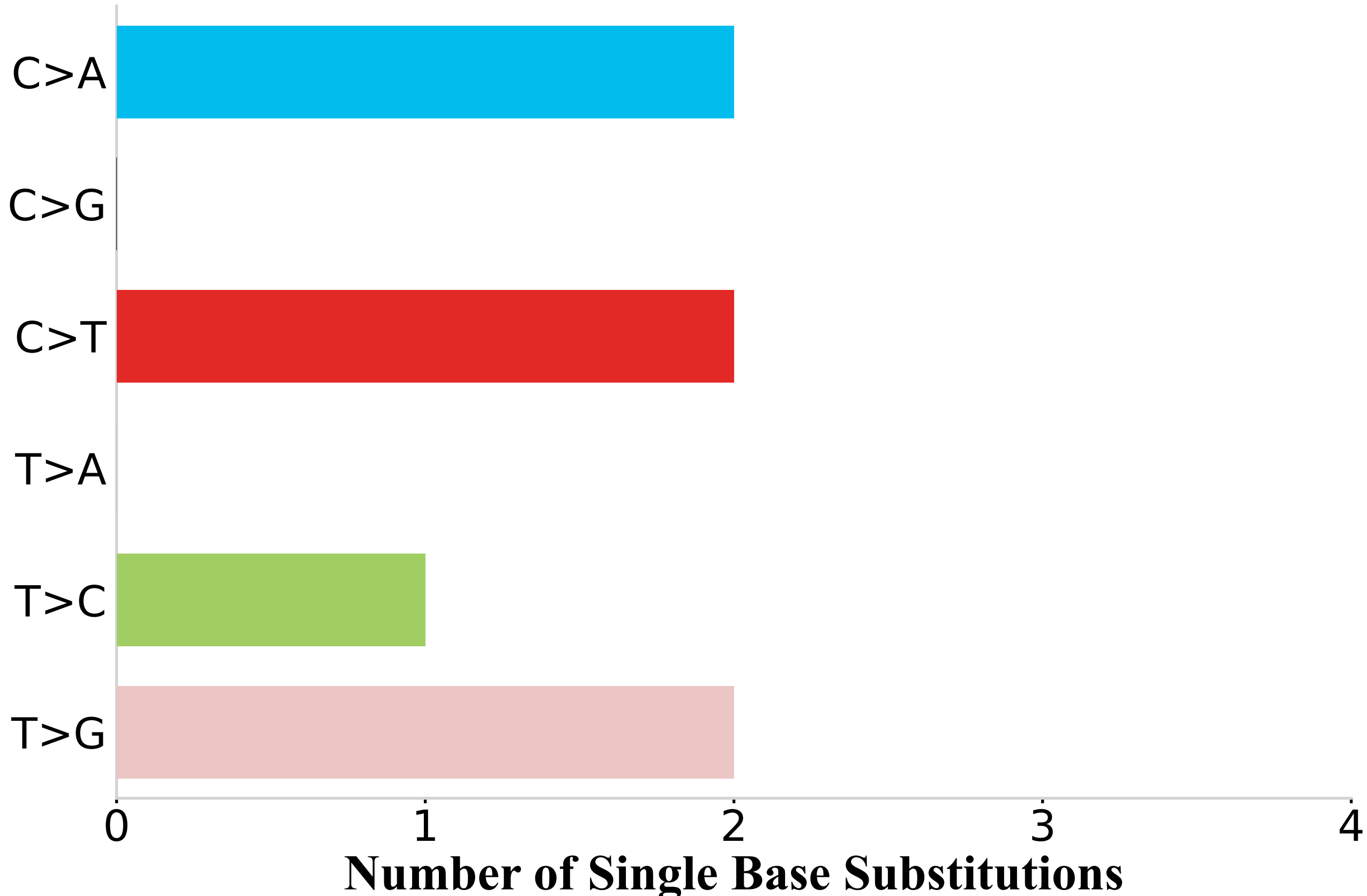
P-0018927-T02-IM6: 4 subs



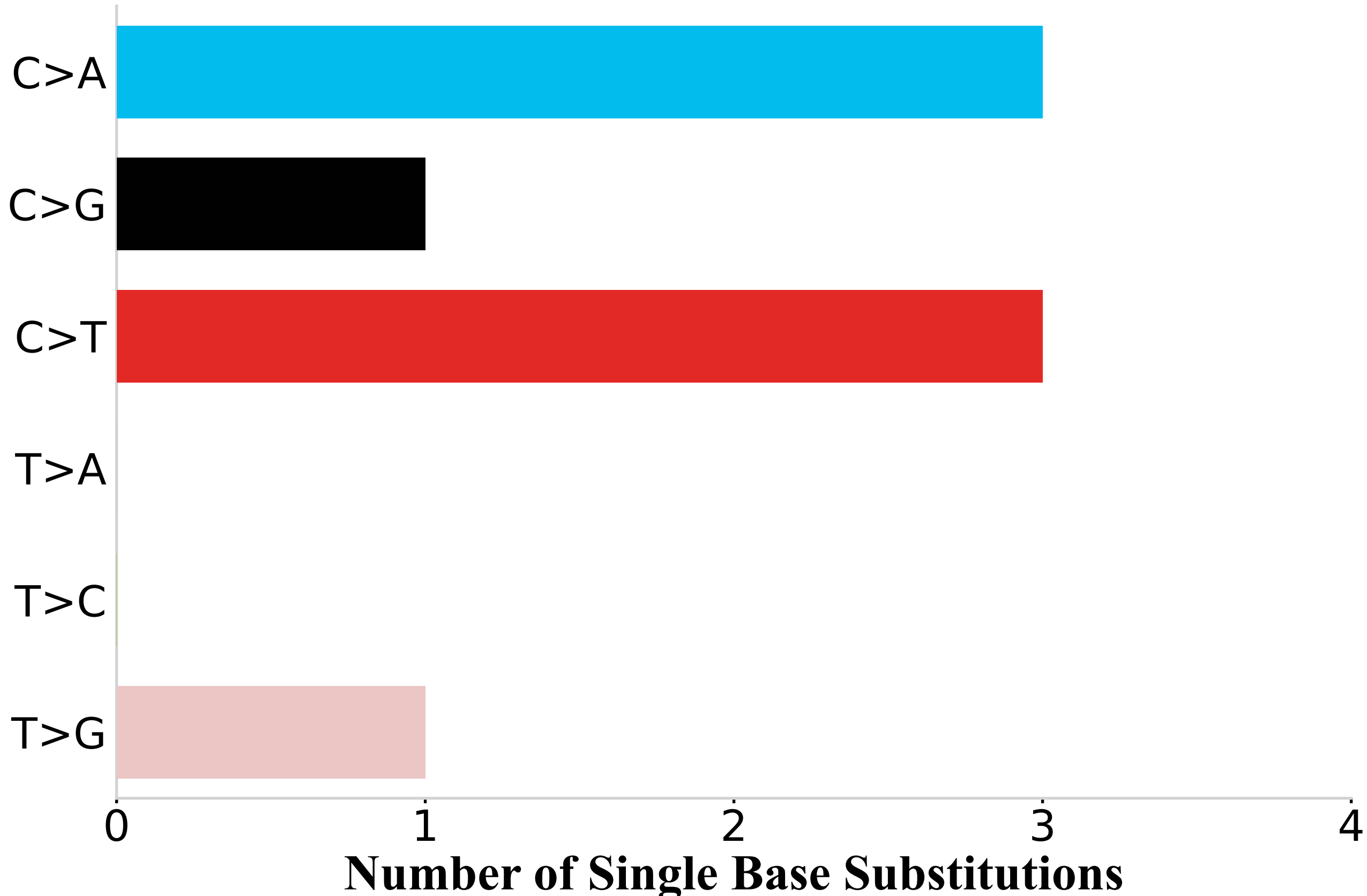
P-0018986-T02-IM6: 8 subs



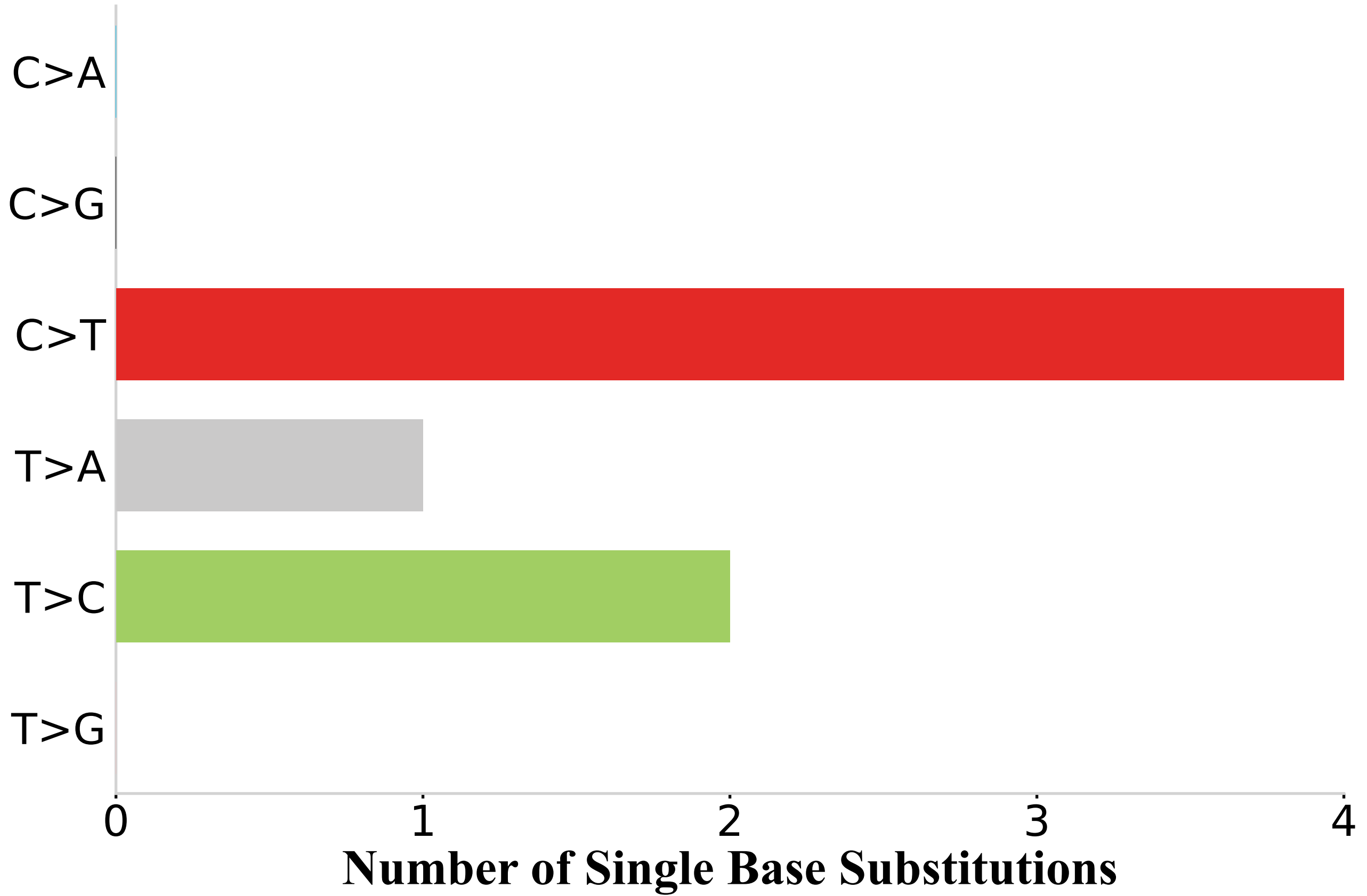
P-0019271-T01-IM6: 7 subs



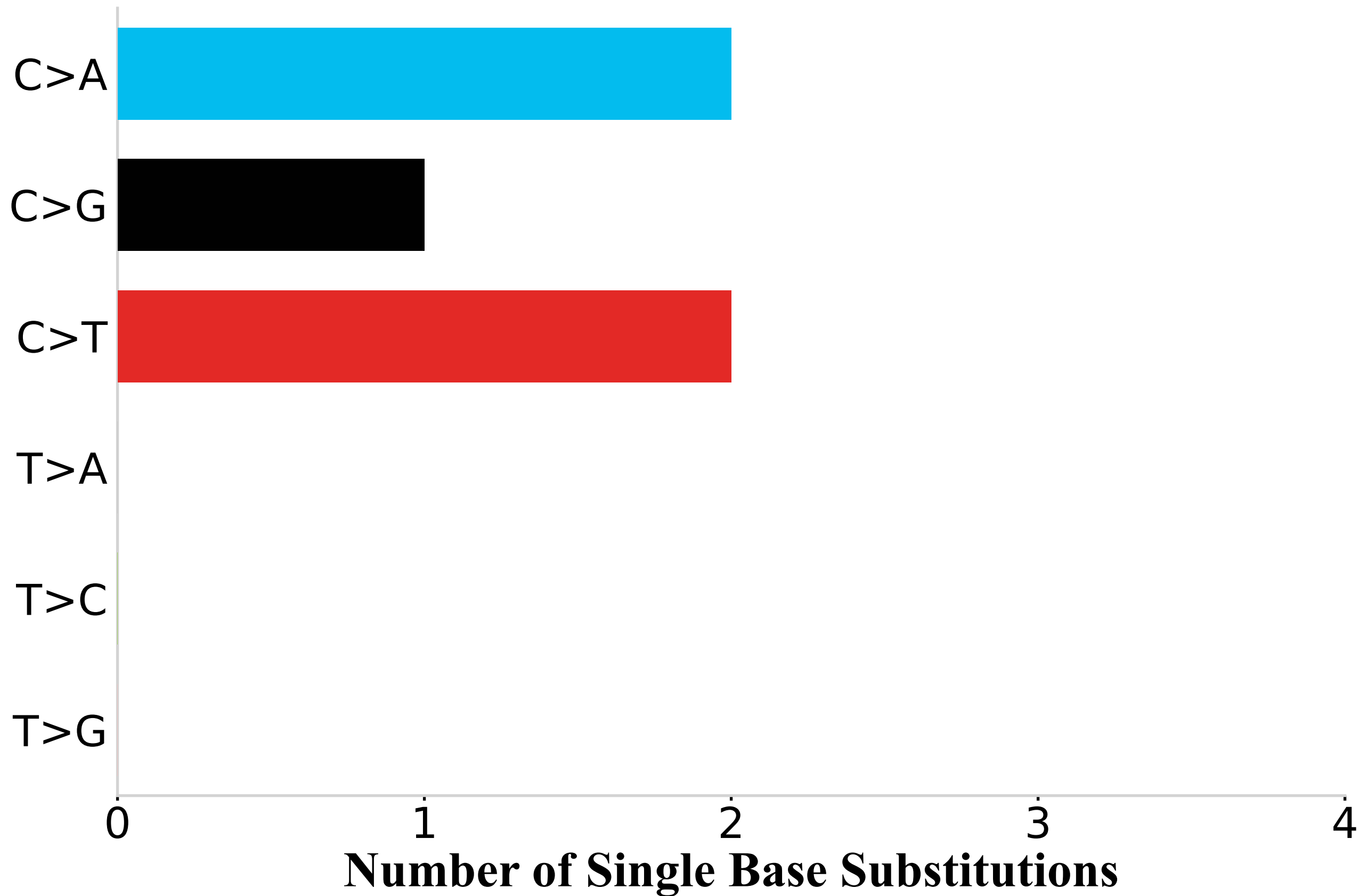
P-0019272-T01-IM6: 8 subs



P-0019413-T01-IM6: 7 subs



P-0019501-T01-IM6: 5 subs



P-0019639-T01-IM6: 4 subs

C>A

C>G

C>T

T>A

T>C

T>G

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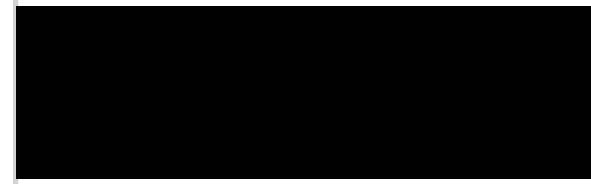
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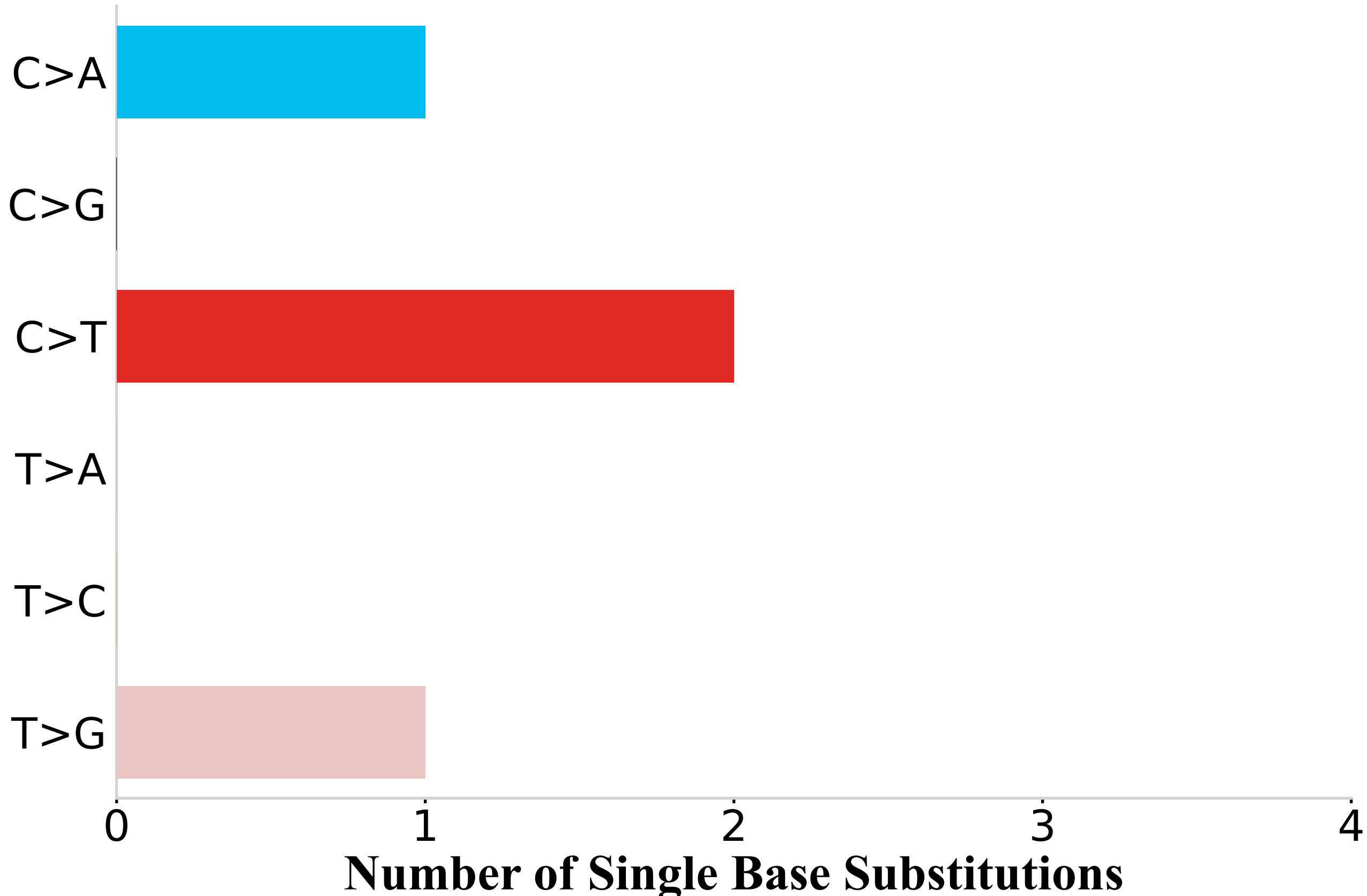
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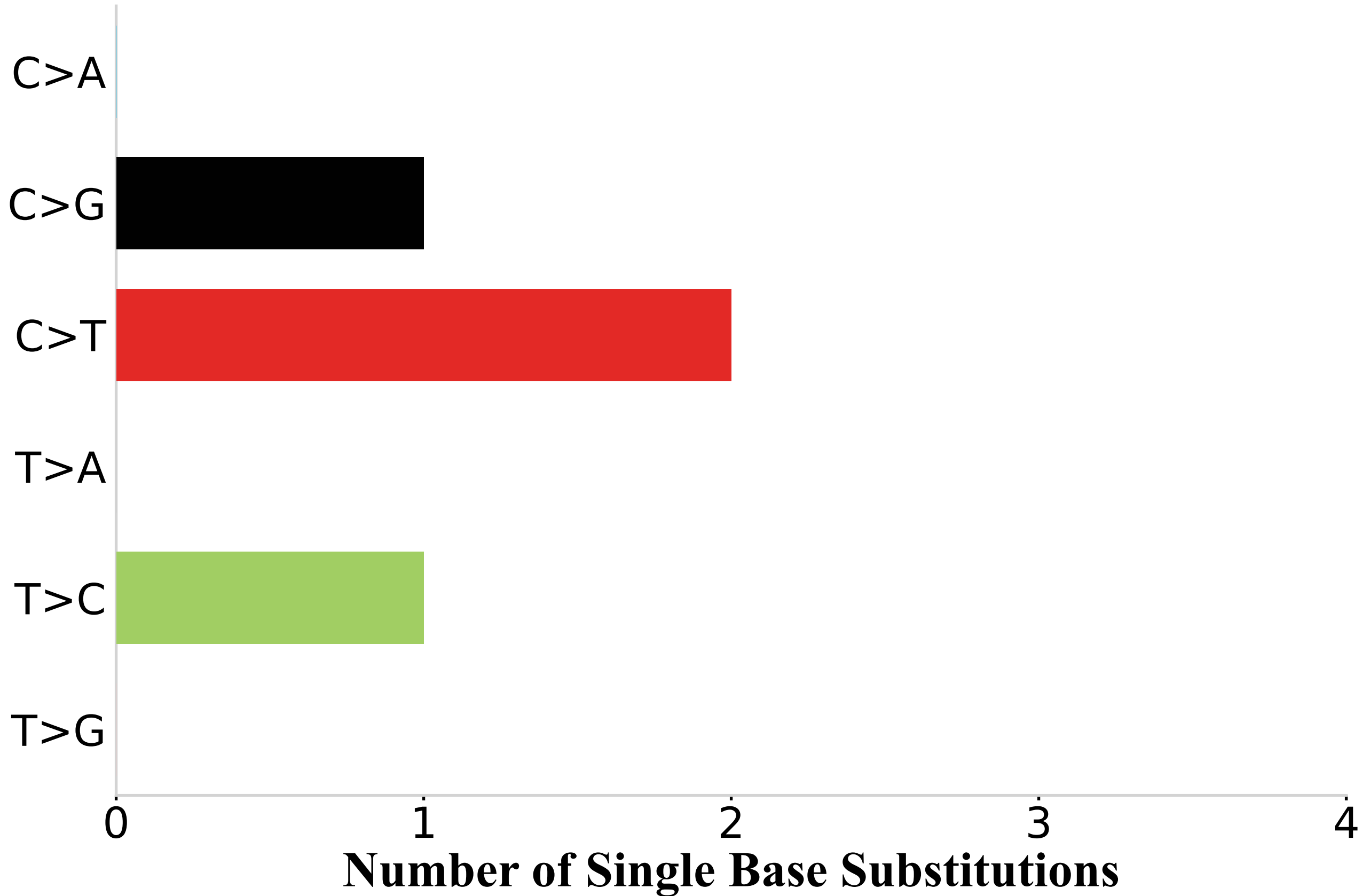
Number of Single Base Substitutions



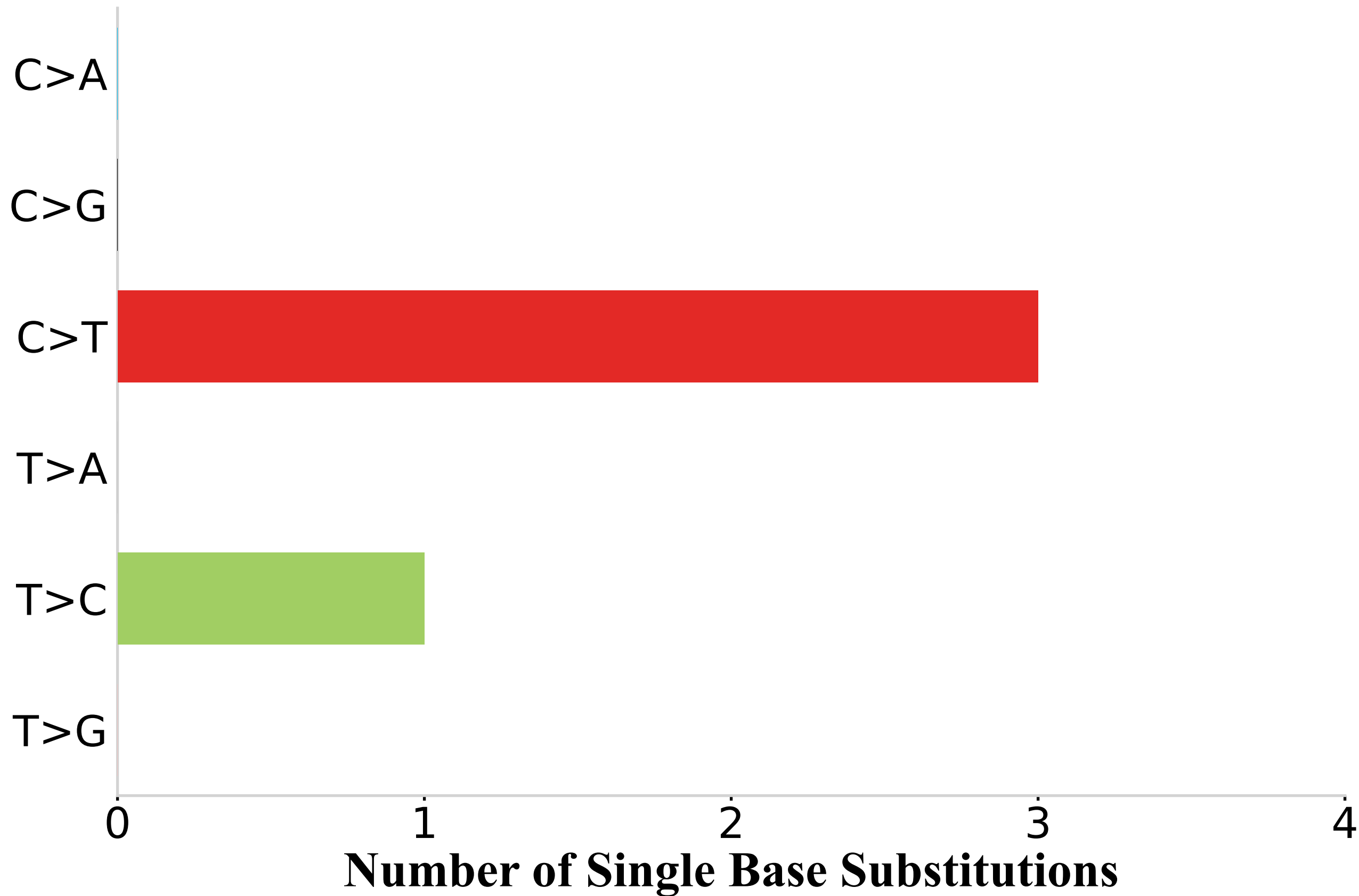
P-0019657-T01-IM6: 4 subs



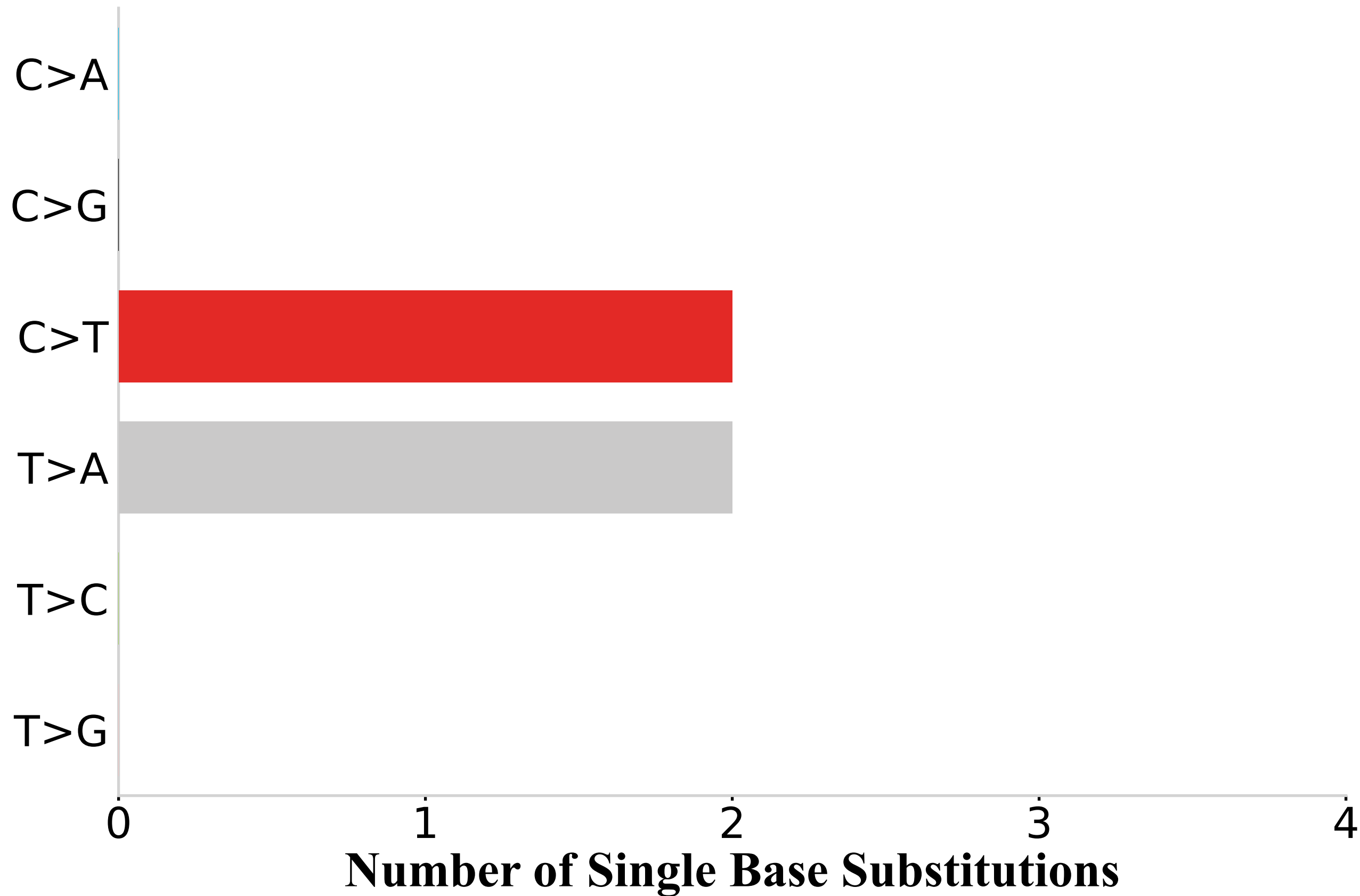
P-0019754-T01-IM6: 4 subs



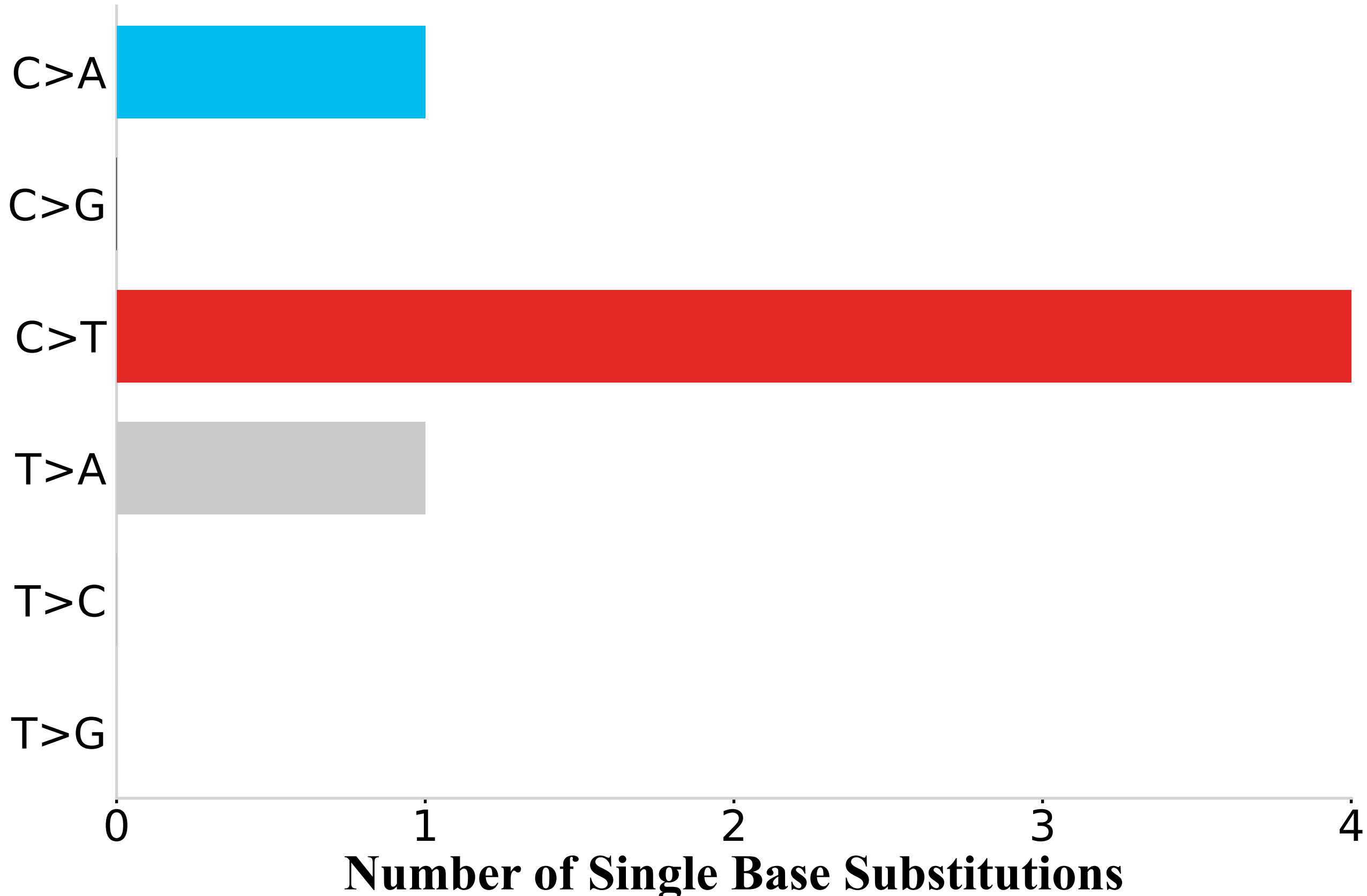
P-0019919-T01-IM6: 4 subs



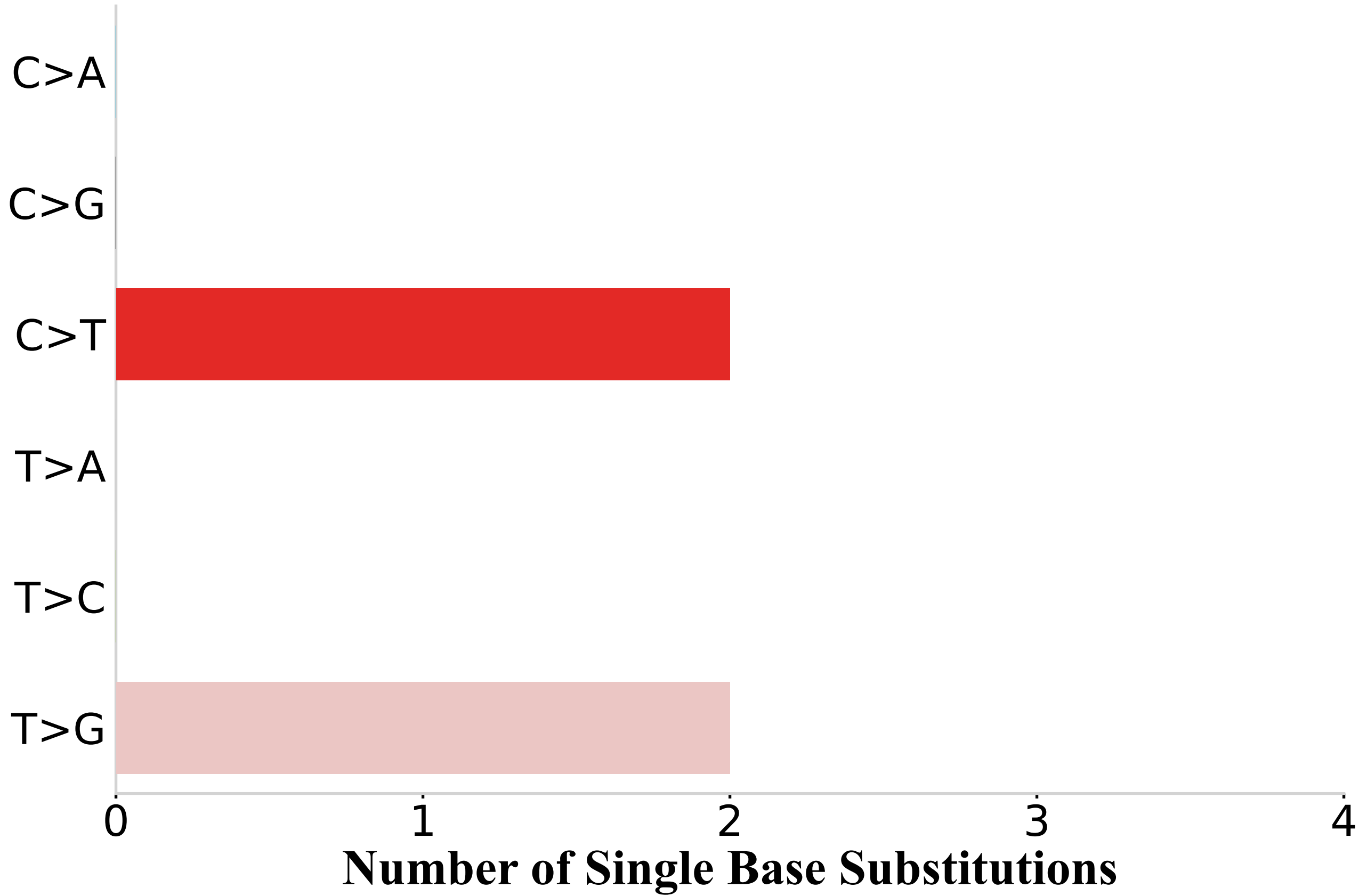
P-0020070-T01-IM6: 4 subs



P-0020169-T01-IM6: 6 subs



P-0020175-T01-IM6: 4 subs



P-0020226-T01-IM6: 0 subs

C>A

C>G

C>T

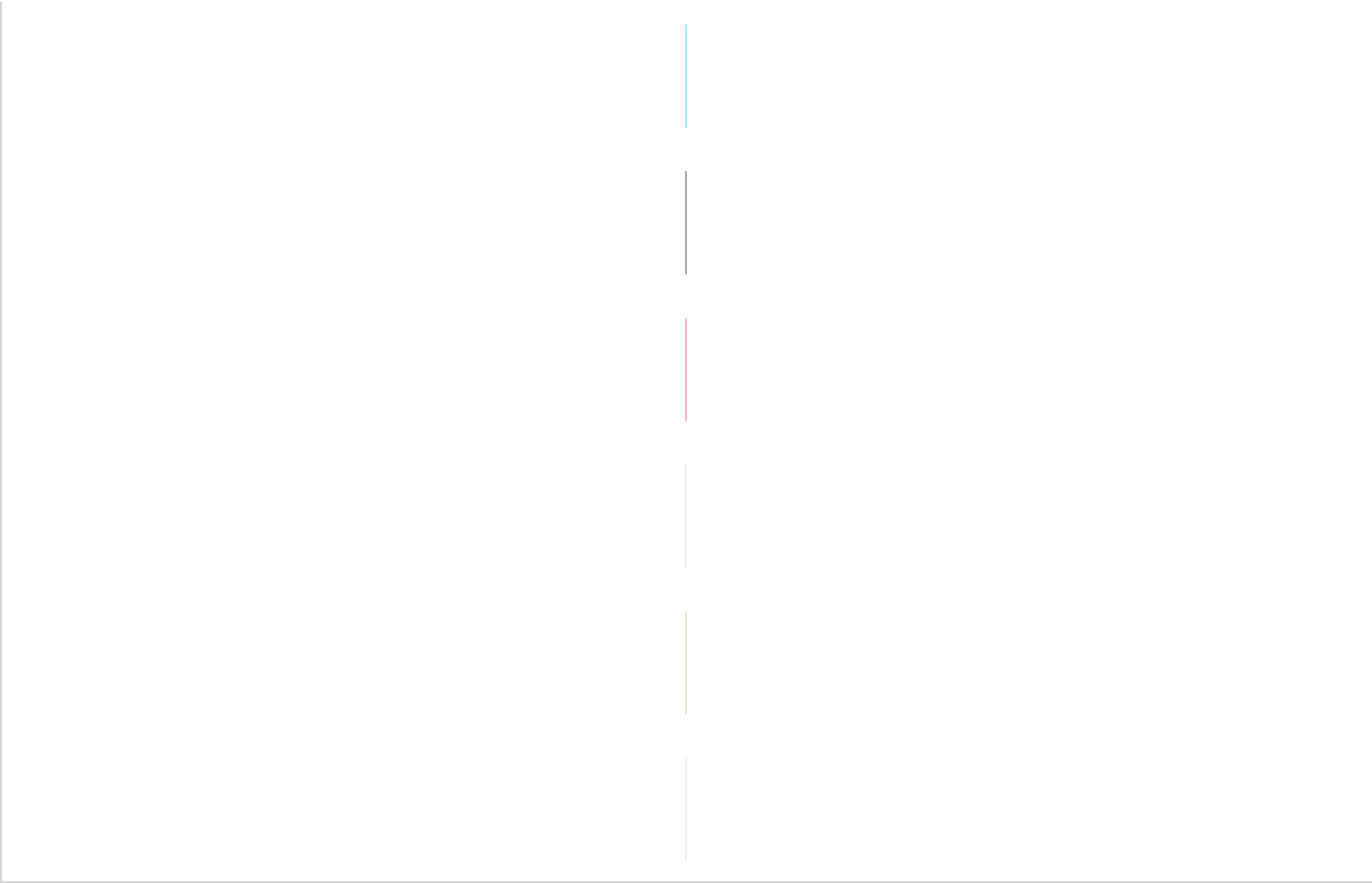
T>A

T>C

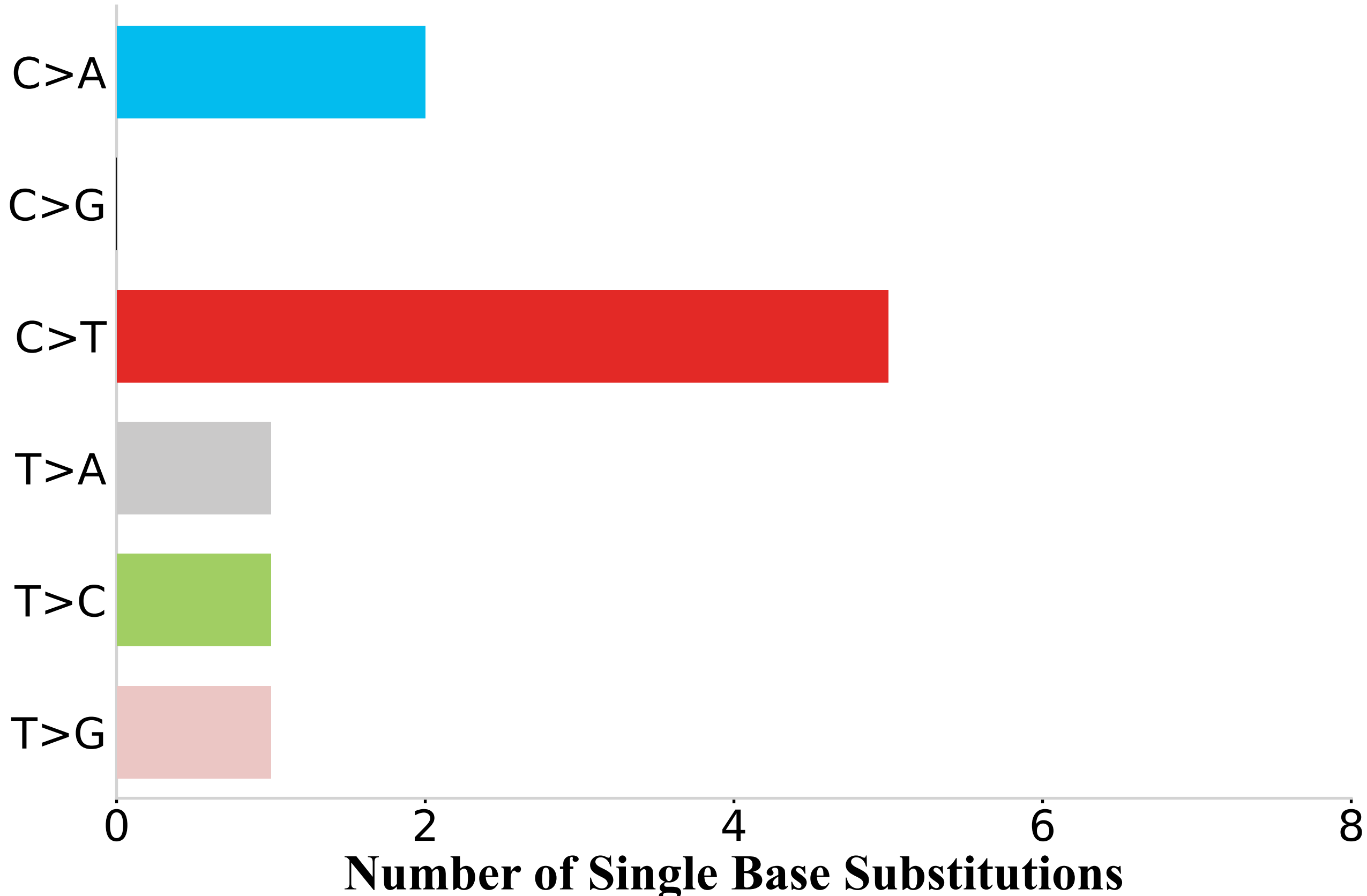
T>G

0

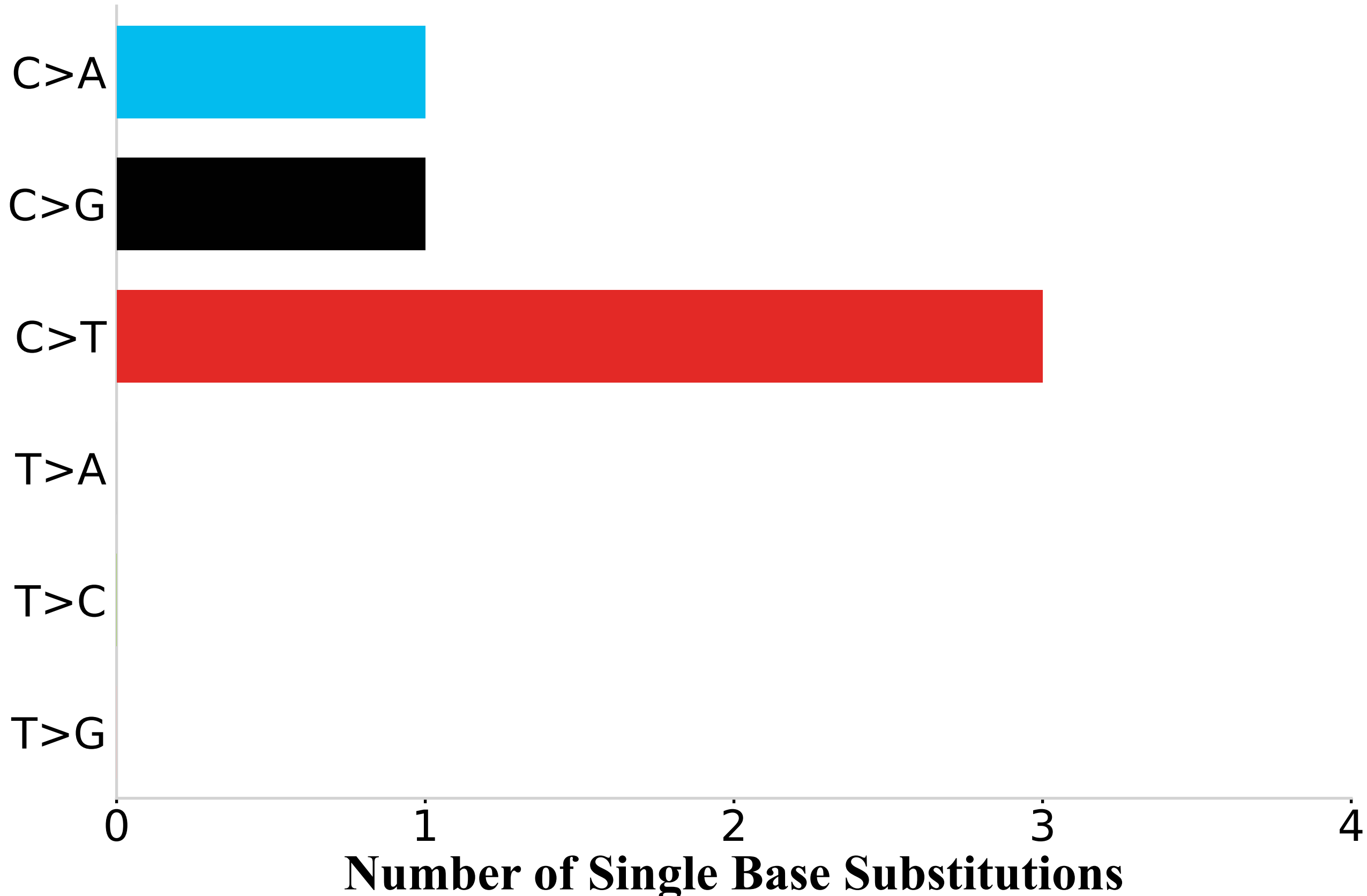
Number of Single Base Substitutions



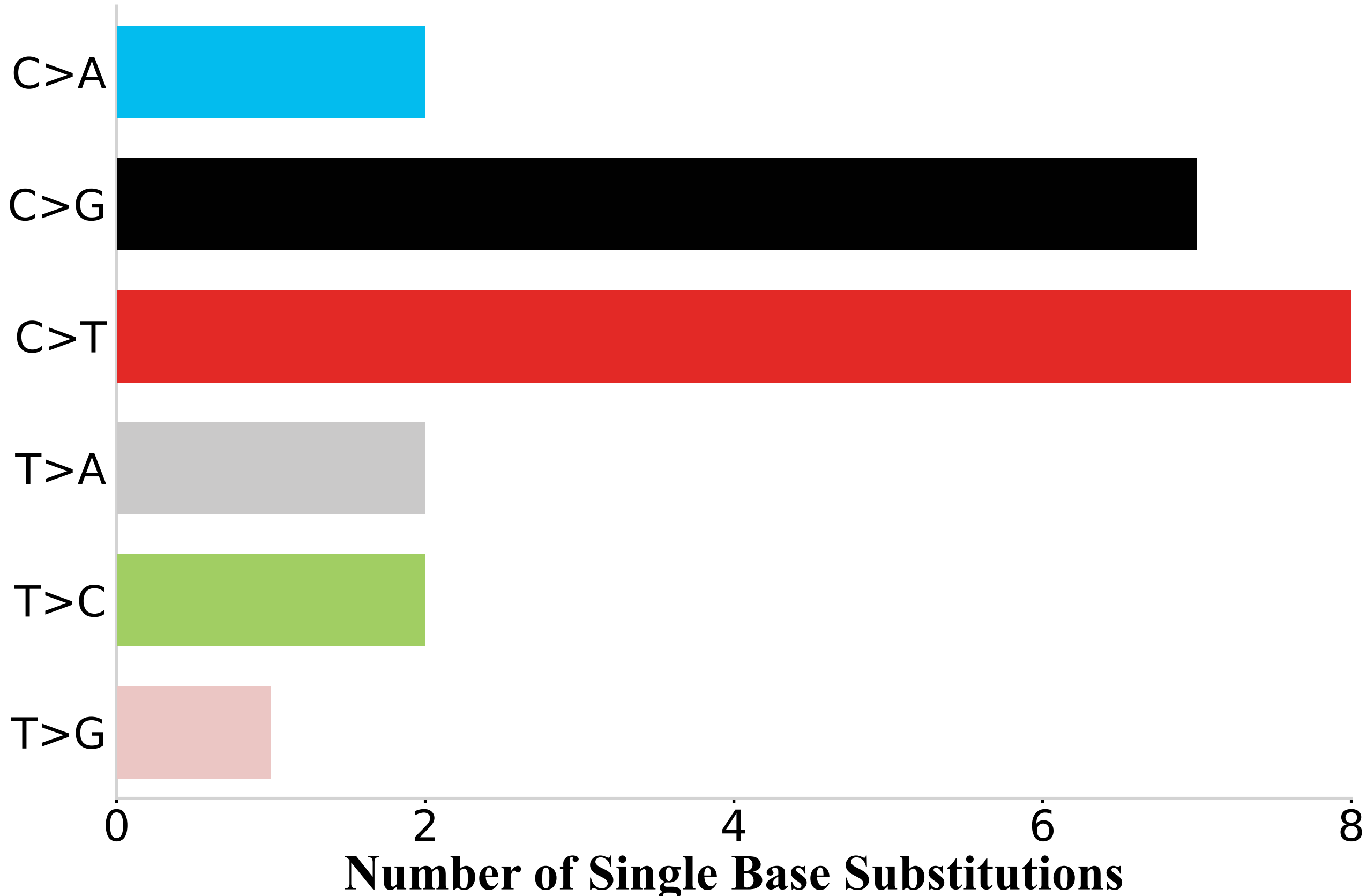
P-0020249-T01-IM6: 10 subs



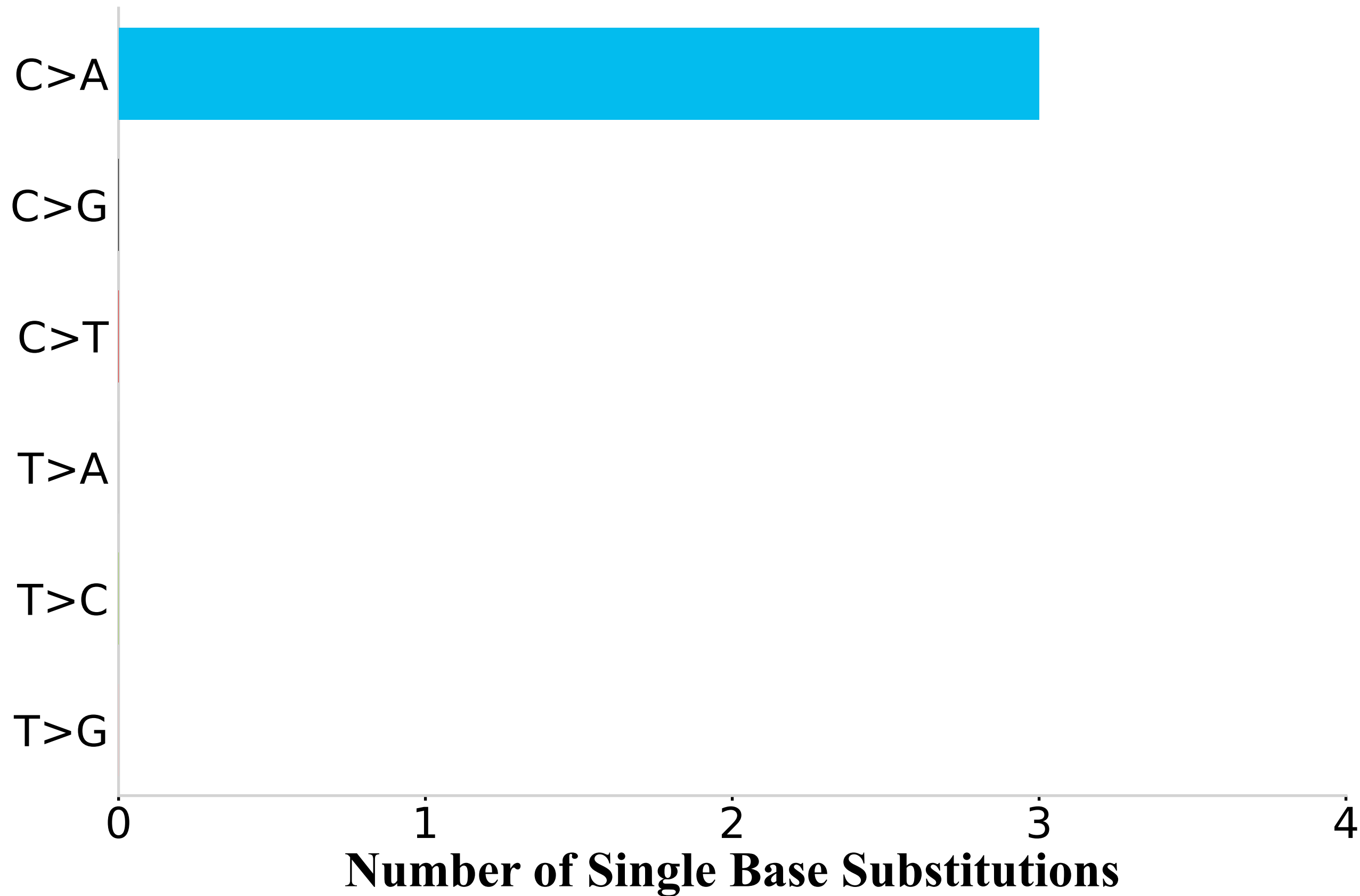
P-0020586-T01-IM6: 5 subs



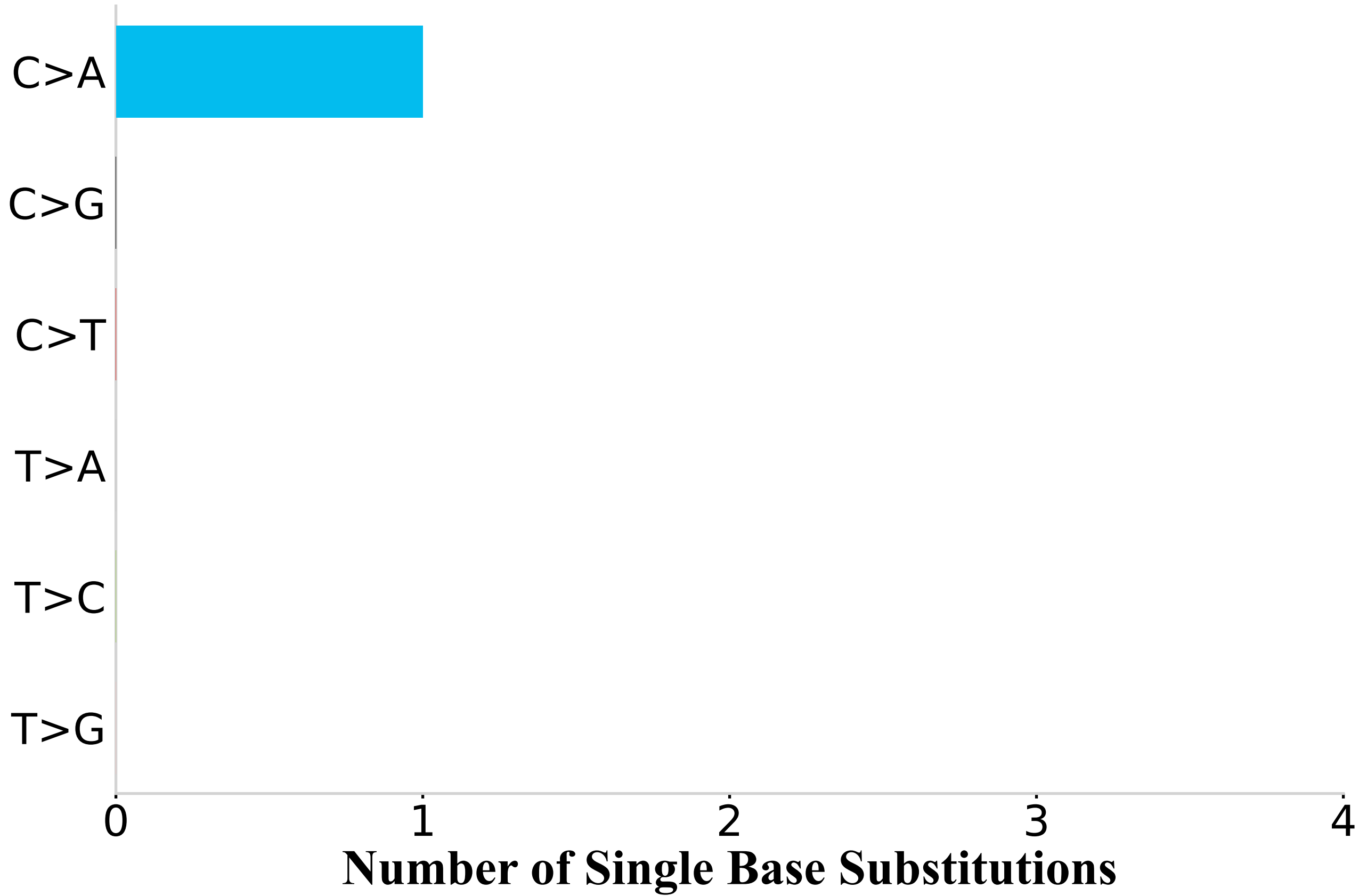
P-0020591-T01-IM6: 22 subs



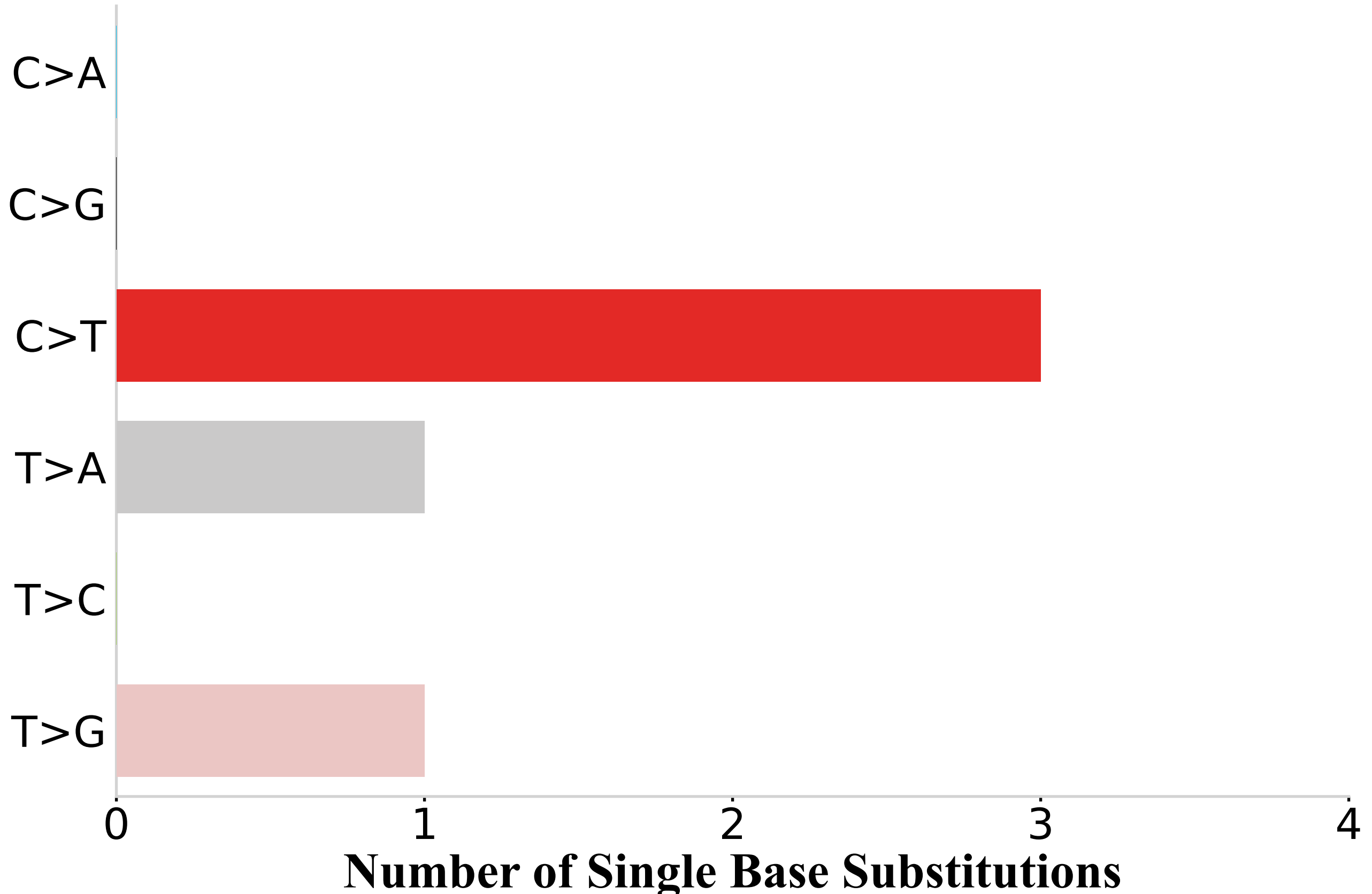
P-0020732-T01-IM6: 3 subs



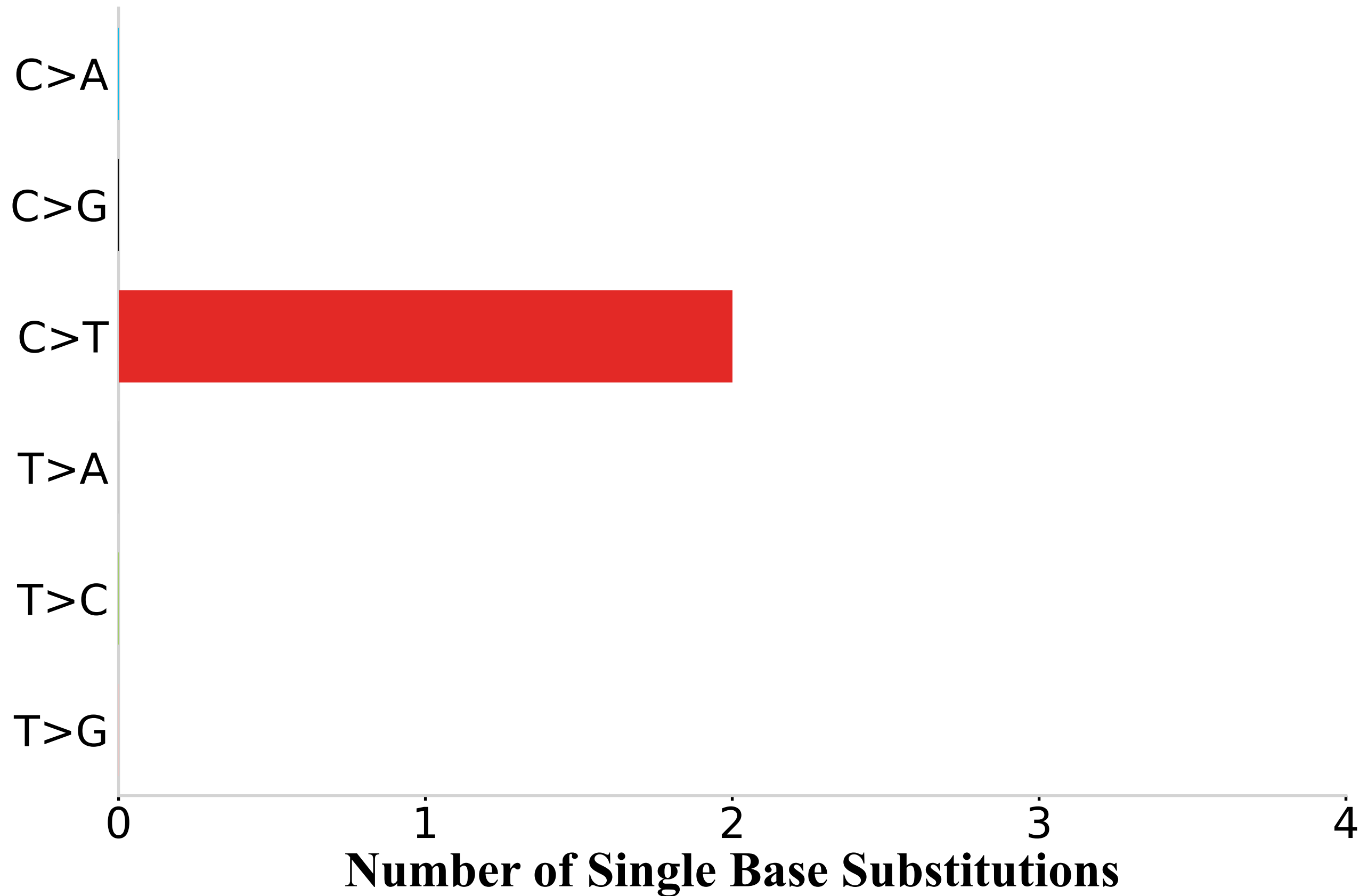
P-0020814-T01-IM6: 1 subs



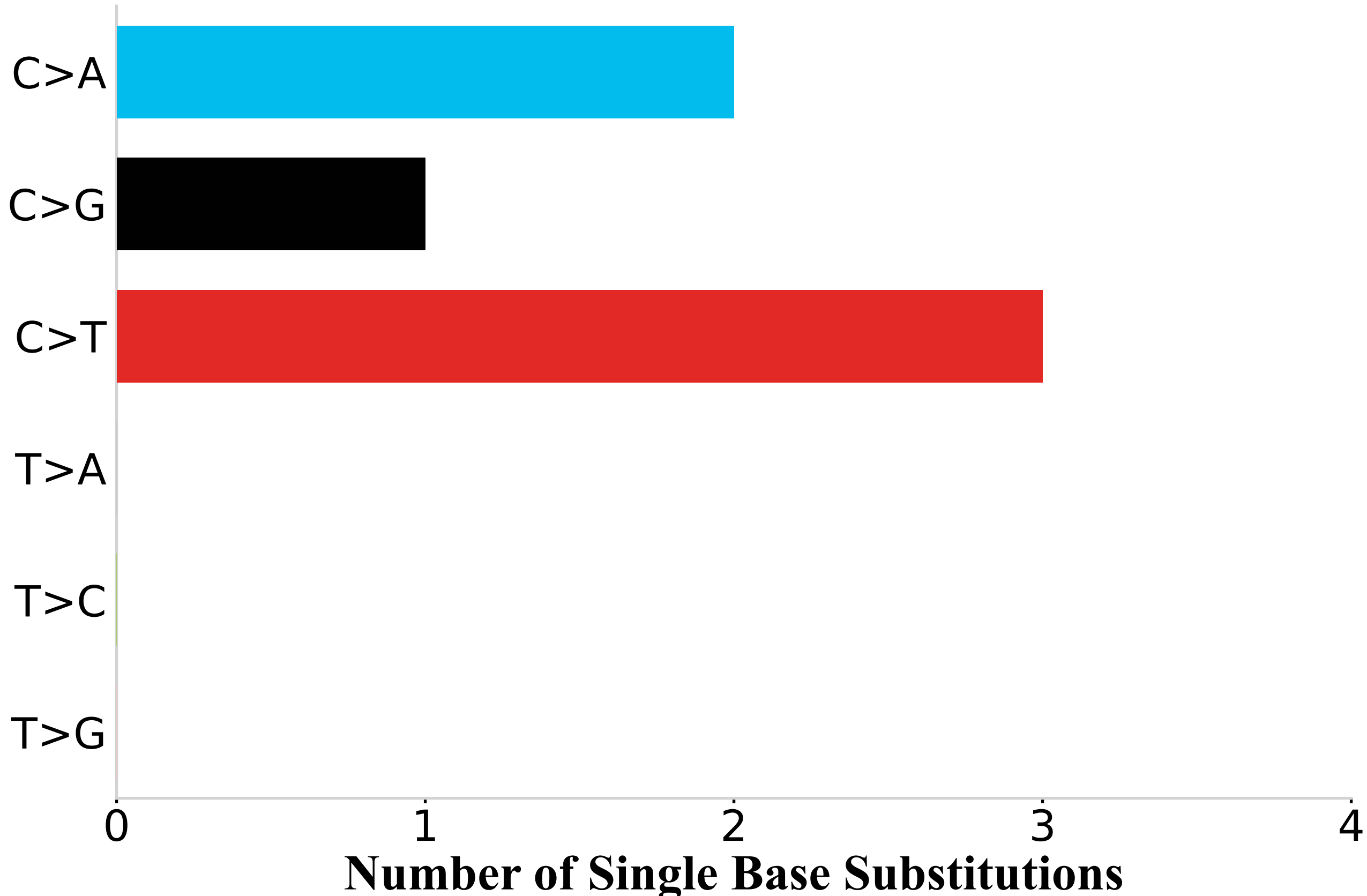
P-0020903-T01-IM6: 5 subs



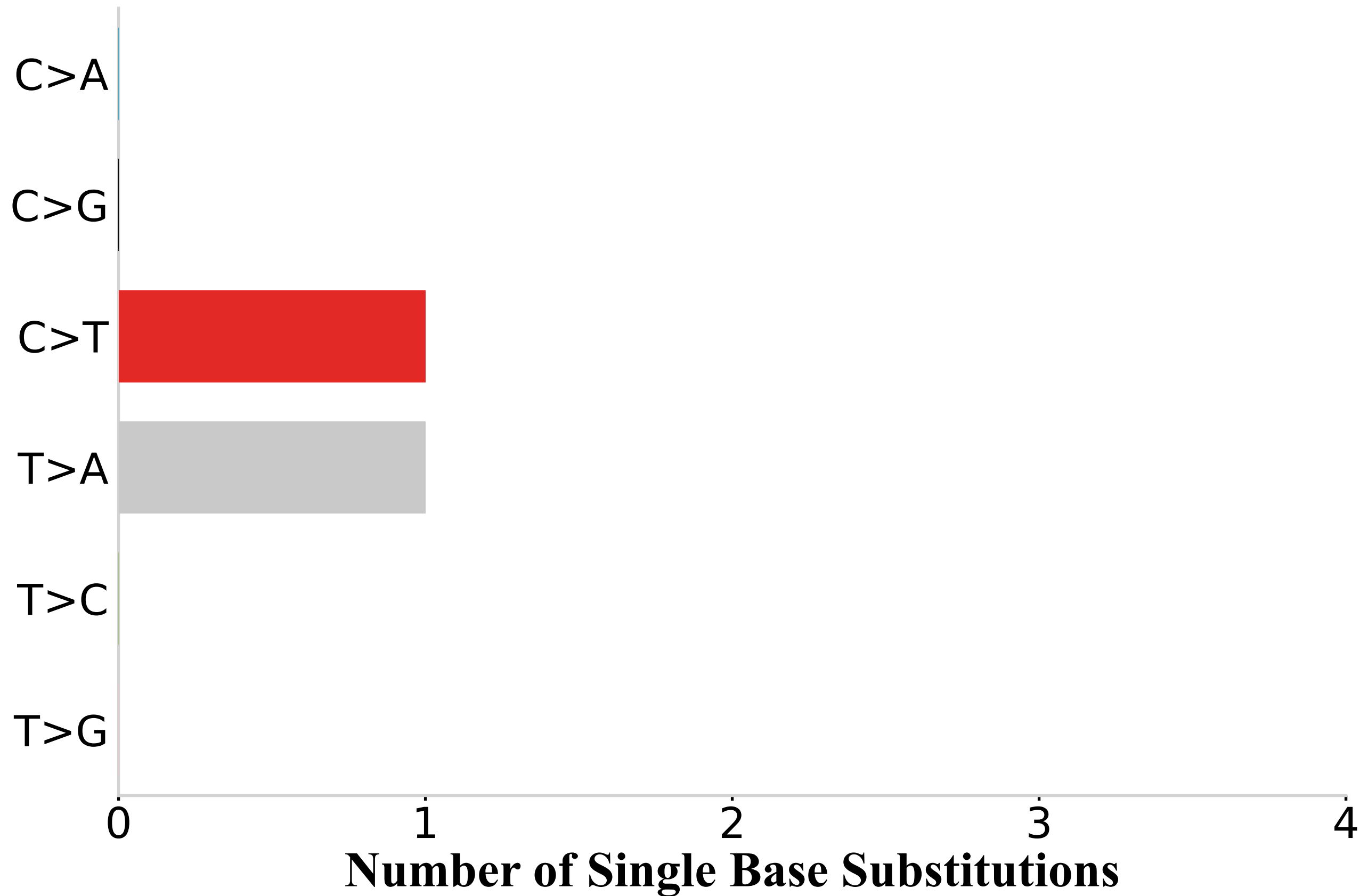
P-0021235-T01-IM6: 2 subs



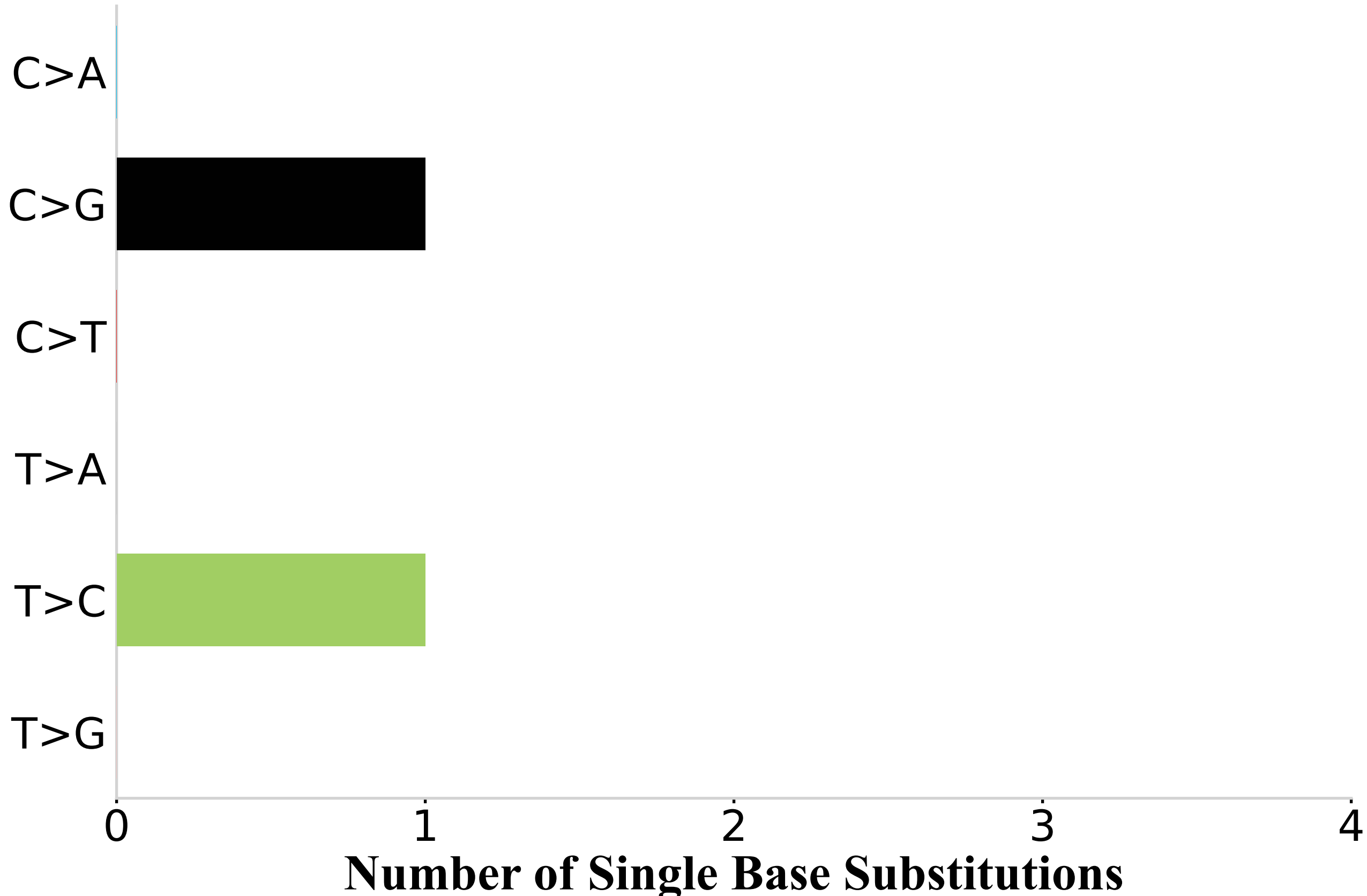
P-0021403-T01-IM6: 6 subs



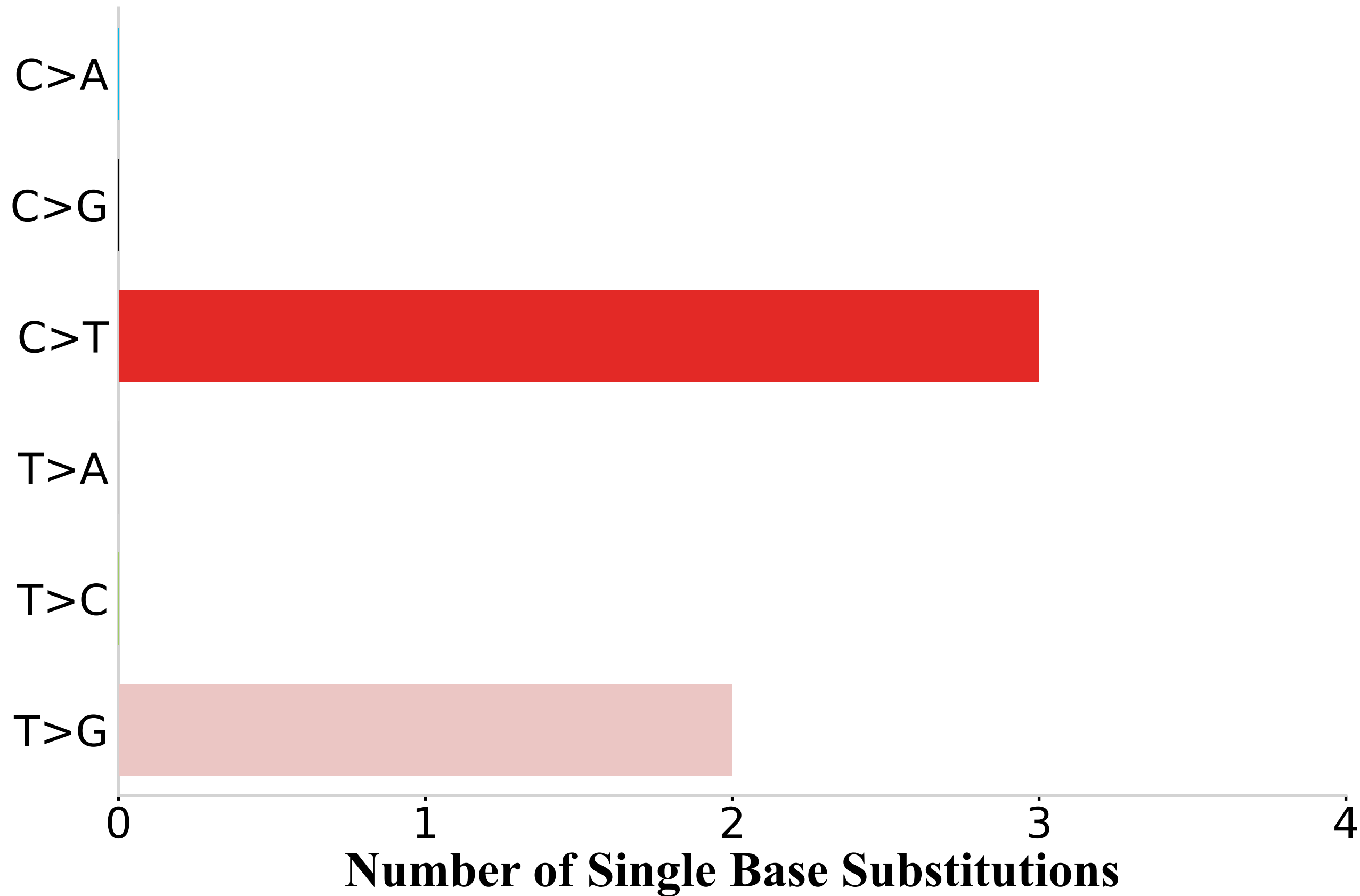
P-0021619-T01-IM6: 2 subs



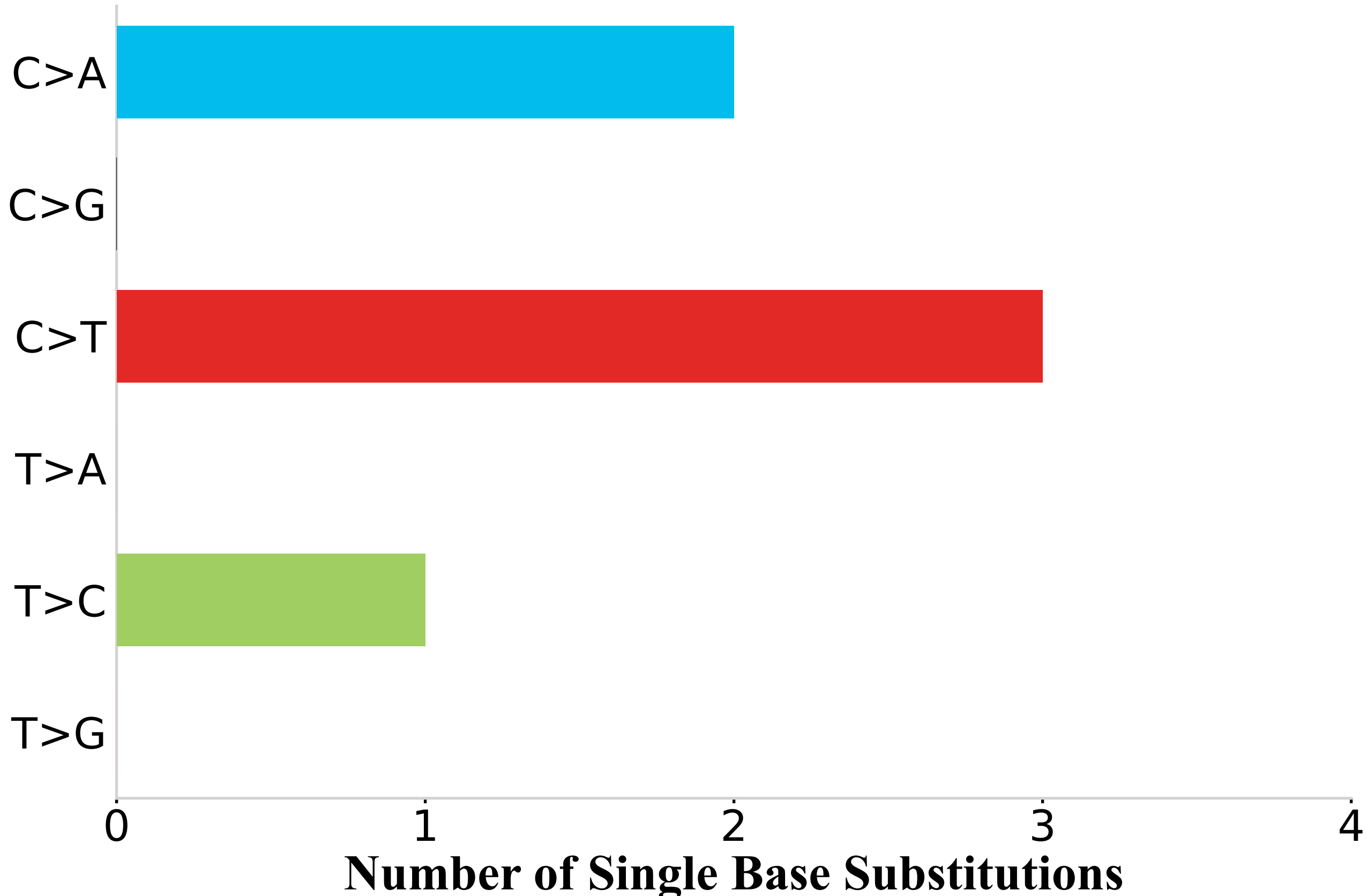
P-0021824-T01-IM6: 2 subs



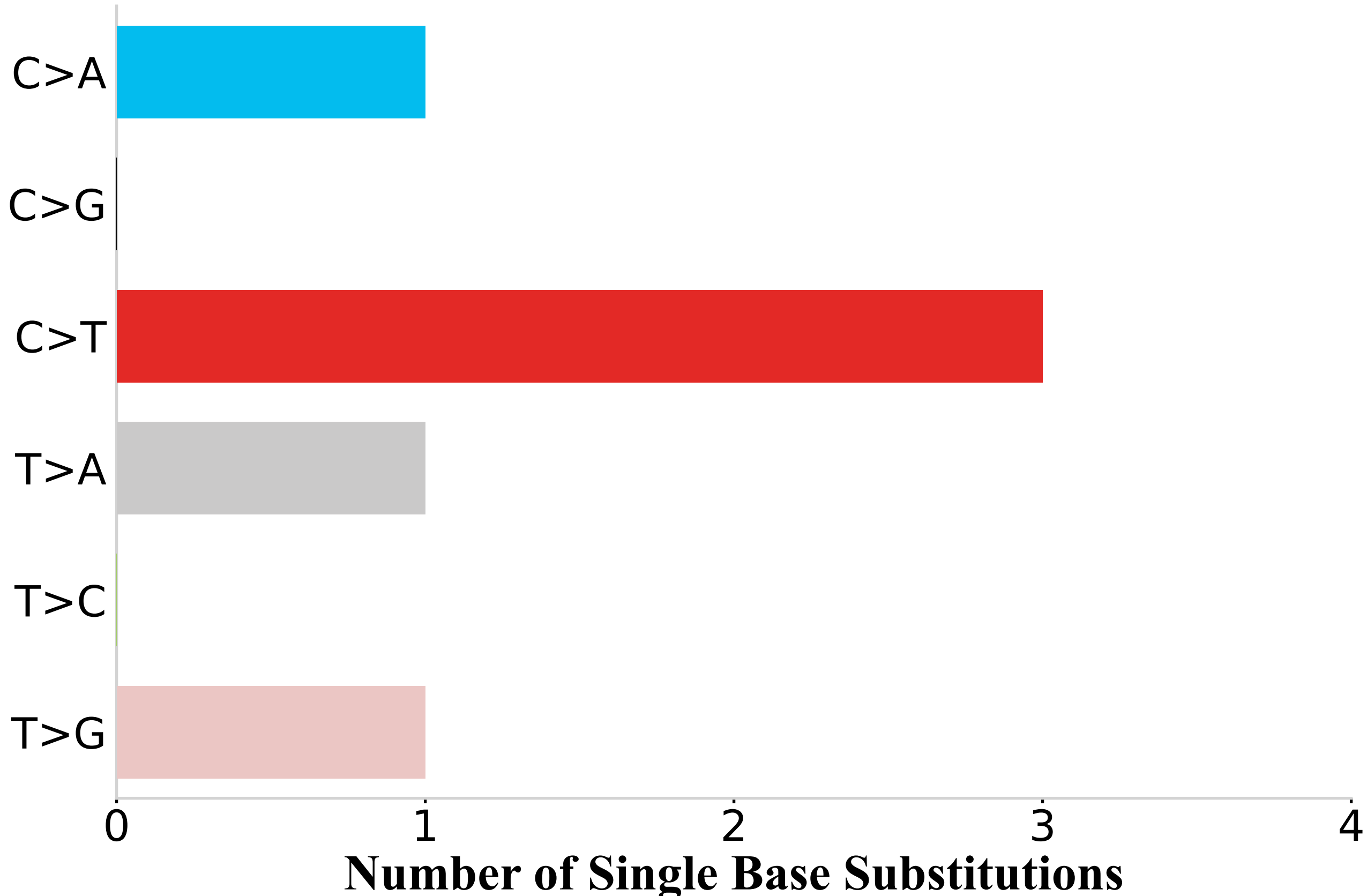
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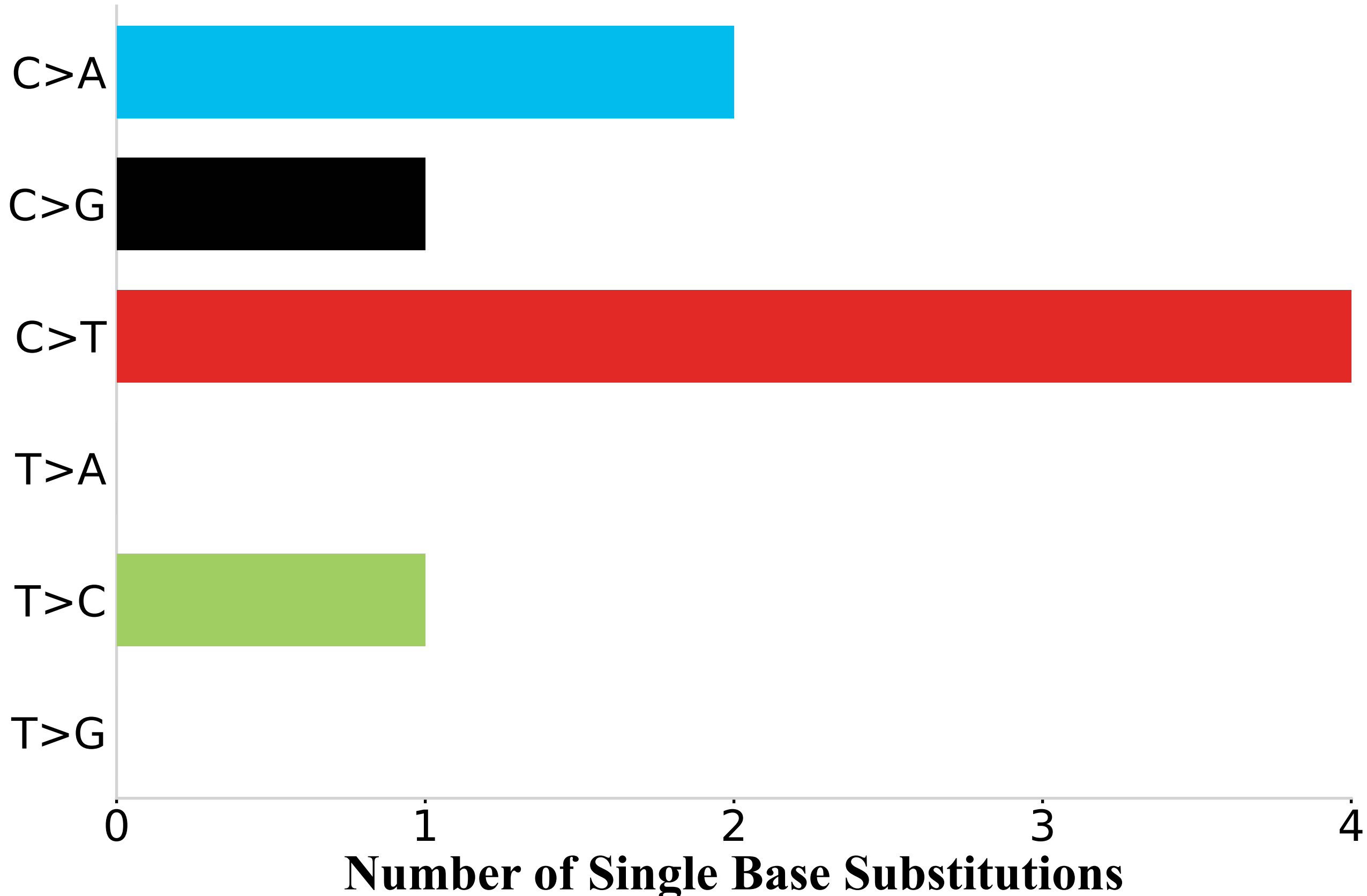
P-0022100-T03-IM6: 6 subs



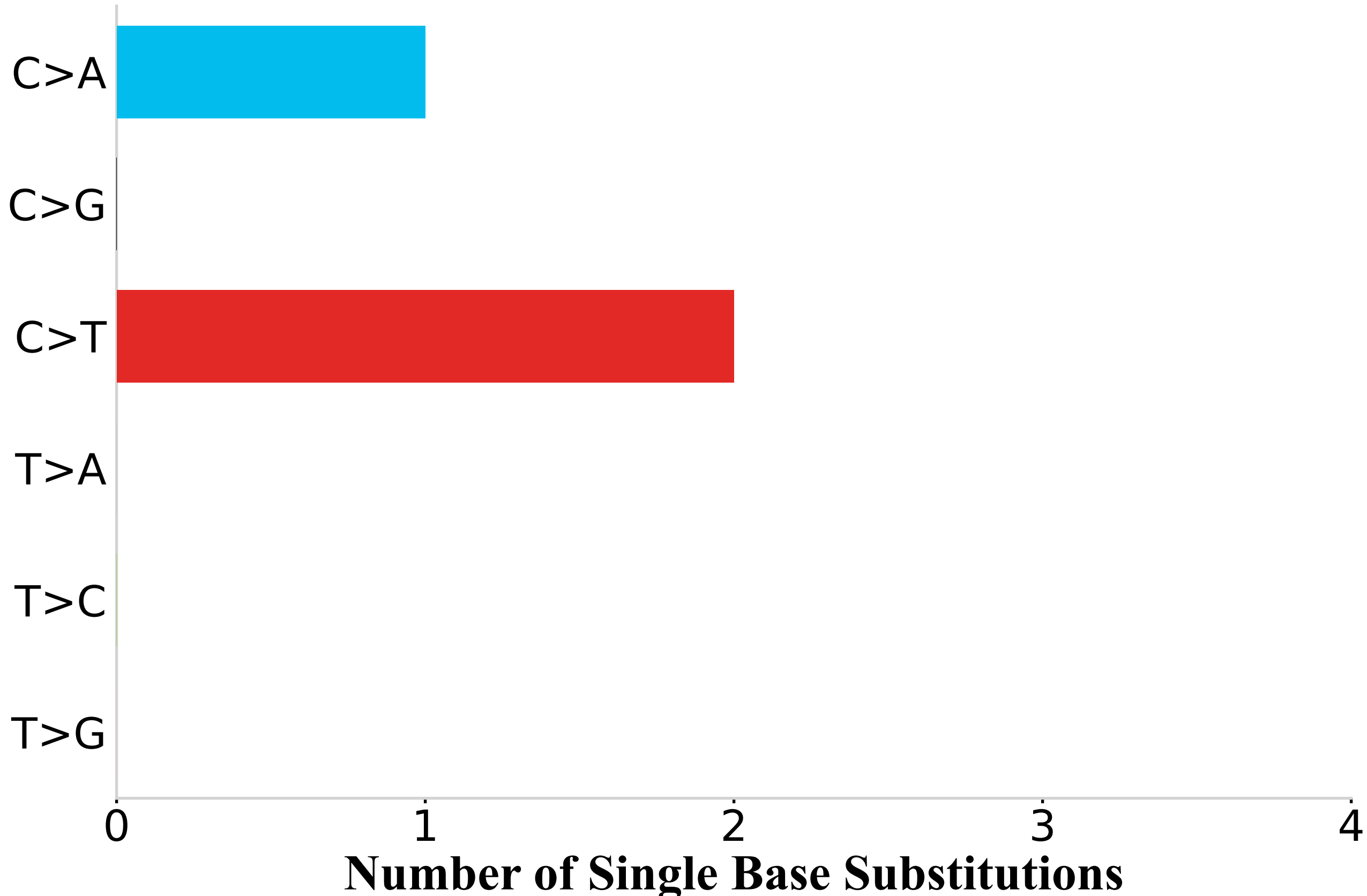
P-0022143-T03-IM6: 6 subs



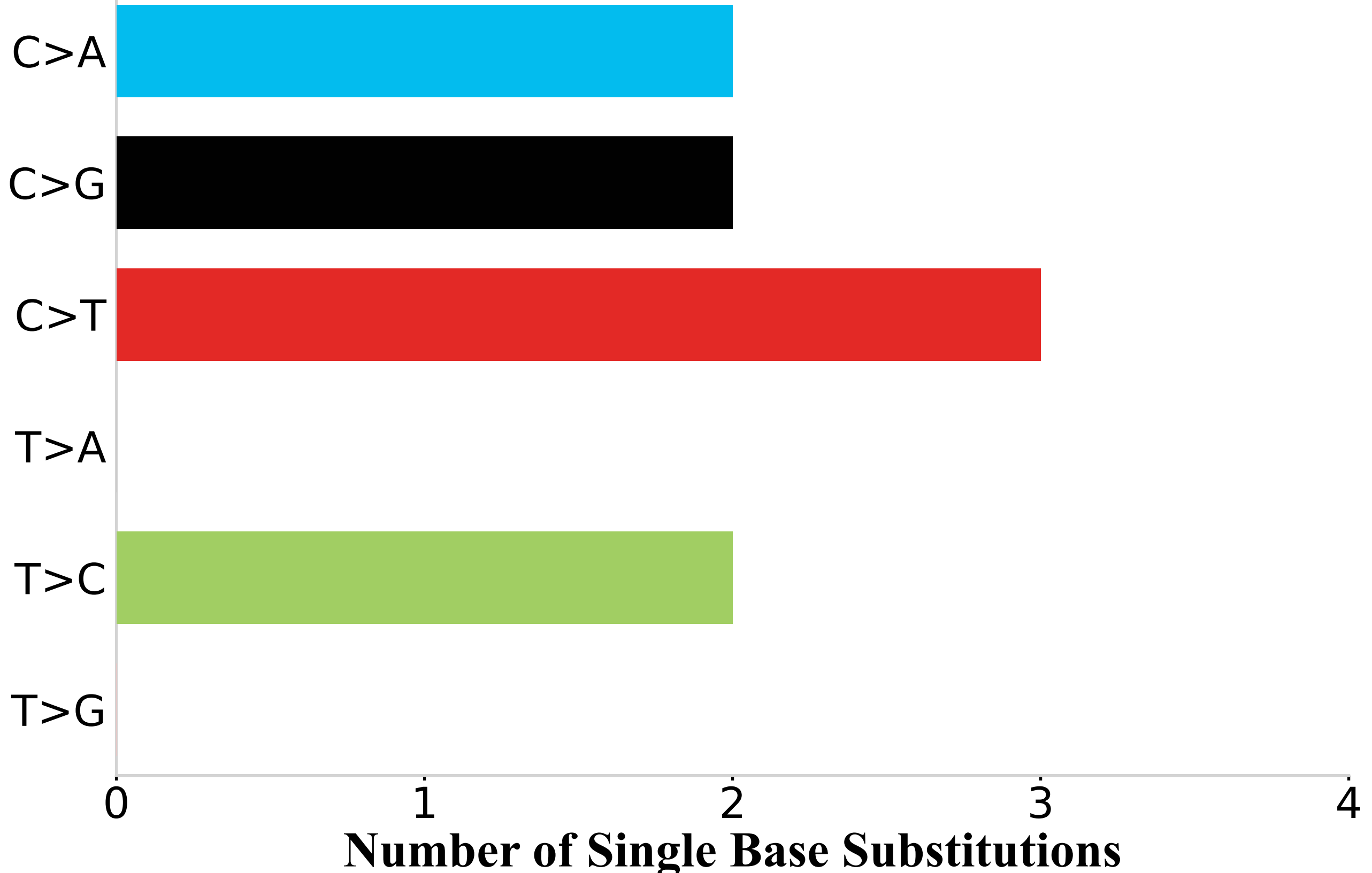
P-0022144-T01-IM6: 8 subs



P-0022154-T01-IM6: 3 subs



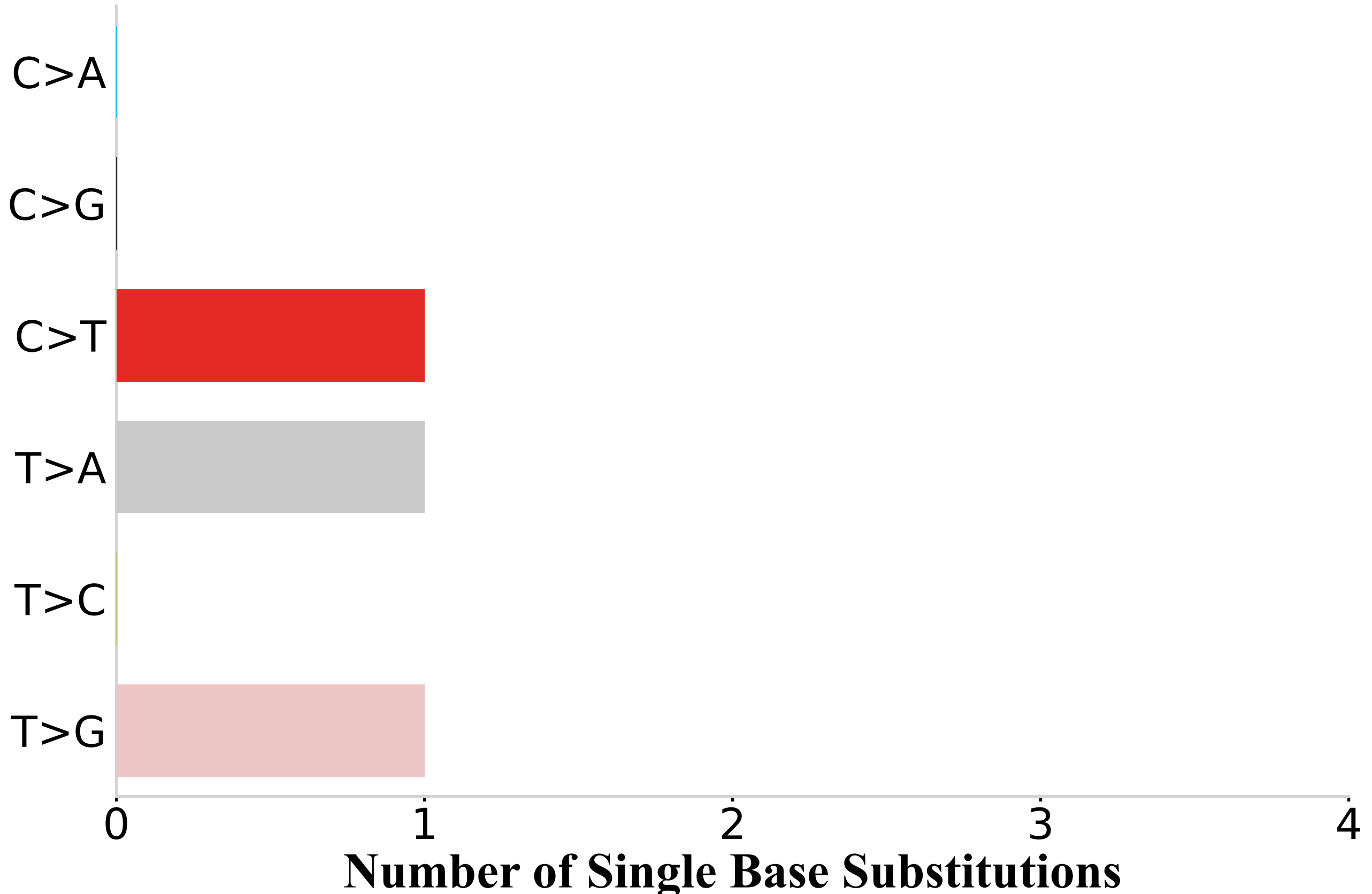
P-0022526-T01-IM6: 9 subs



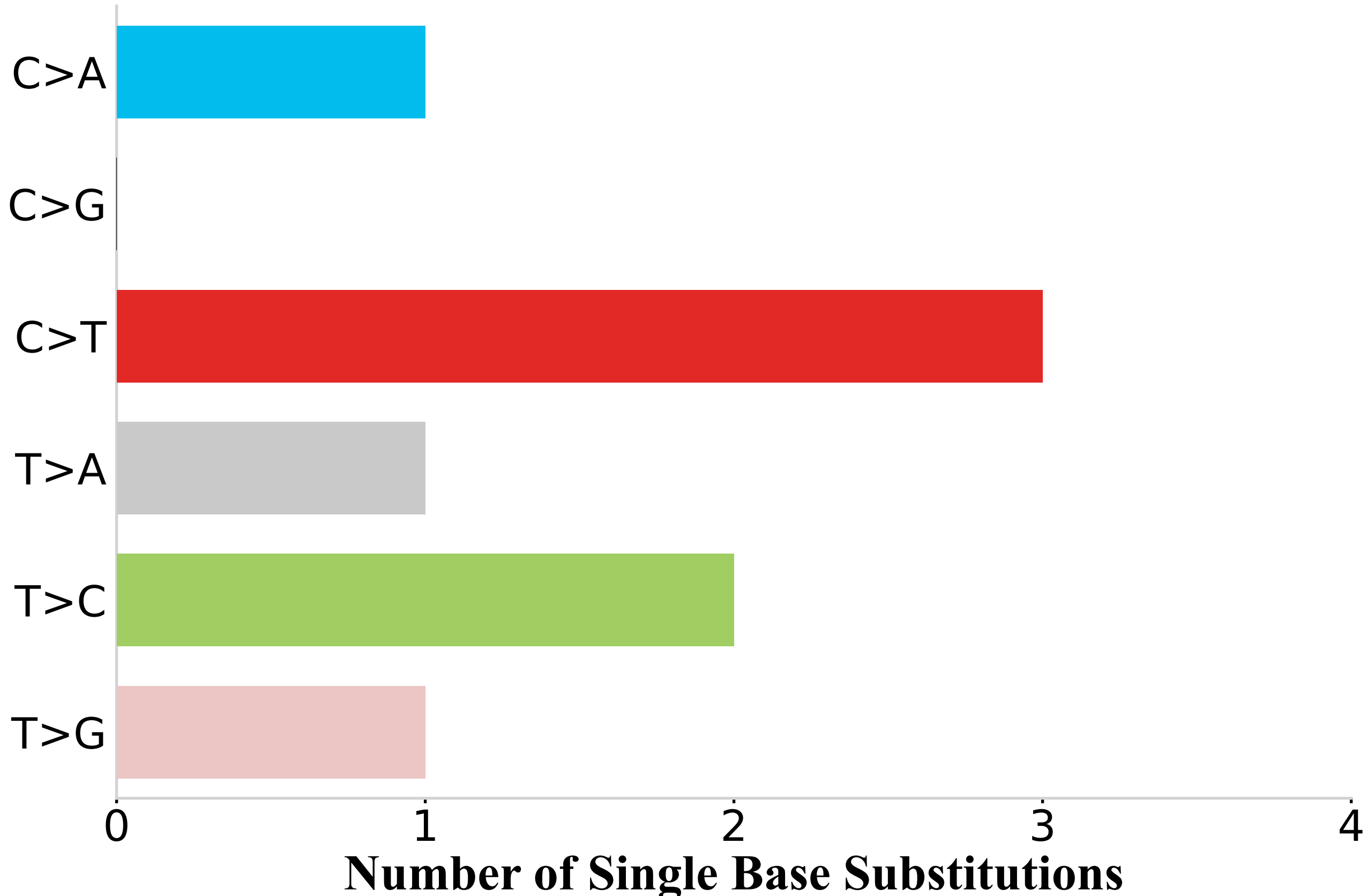
P-0022669-T01-IM6: 2 subs



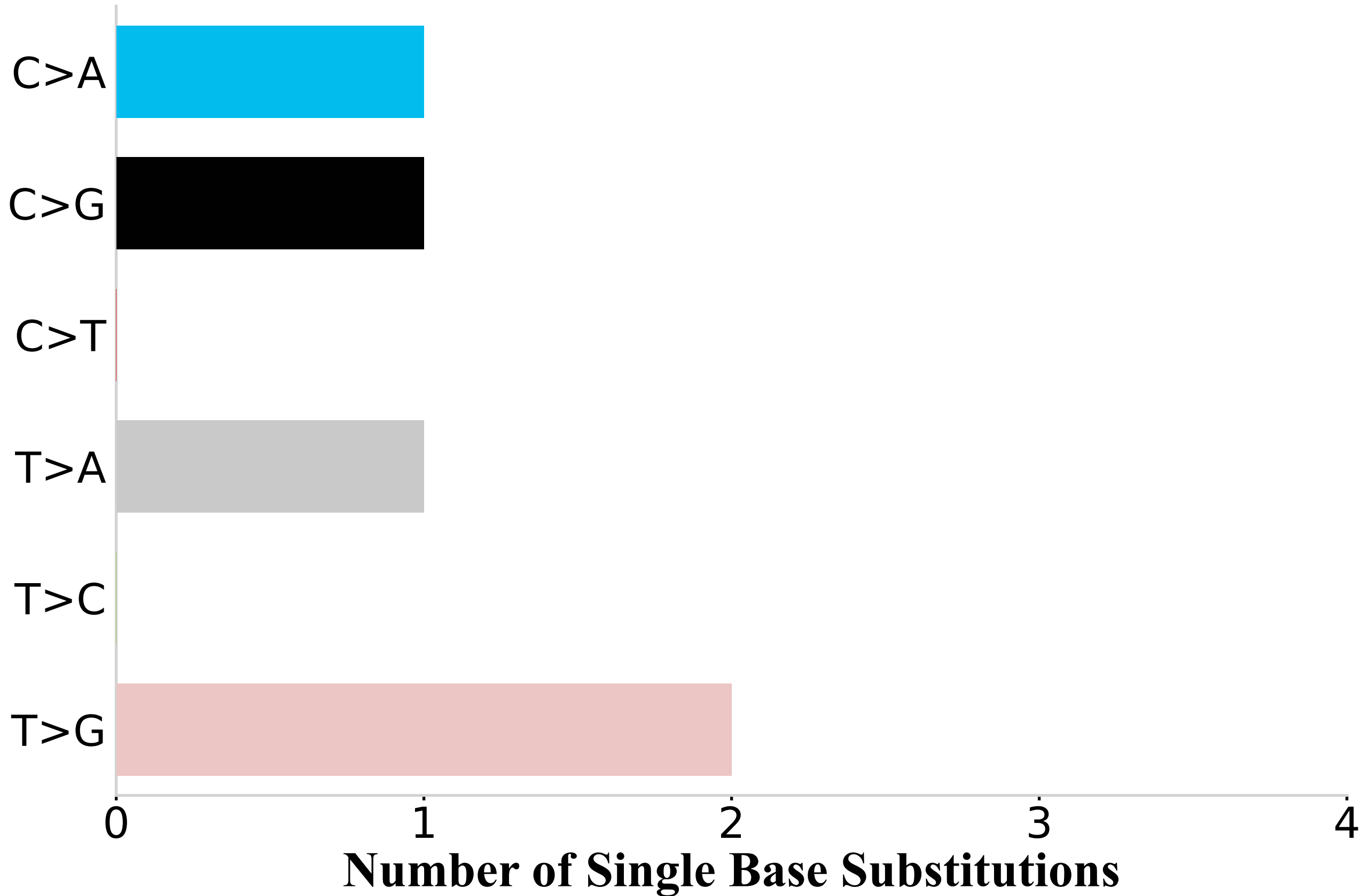
P-0022688-T01-IM6: 3 subs



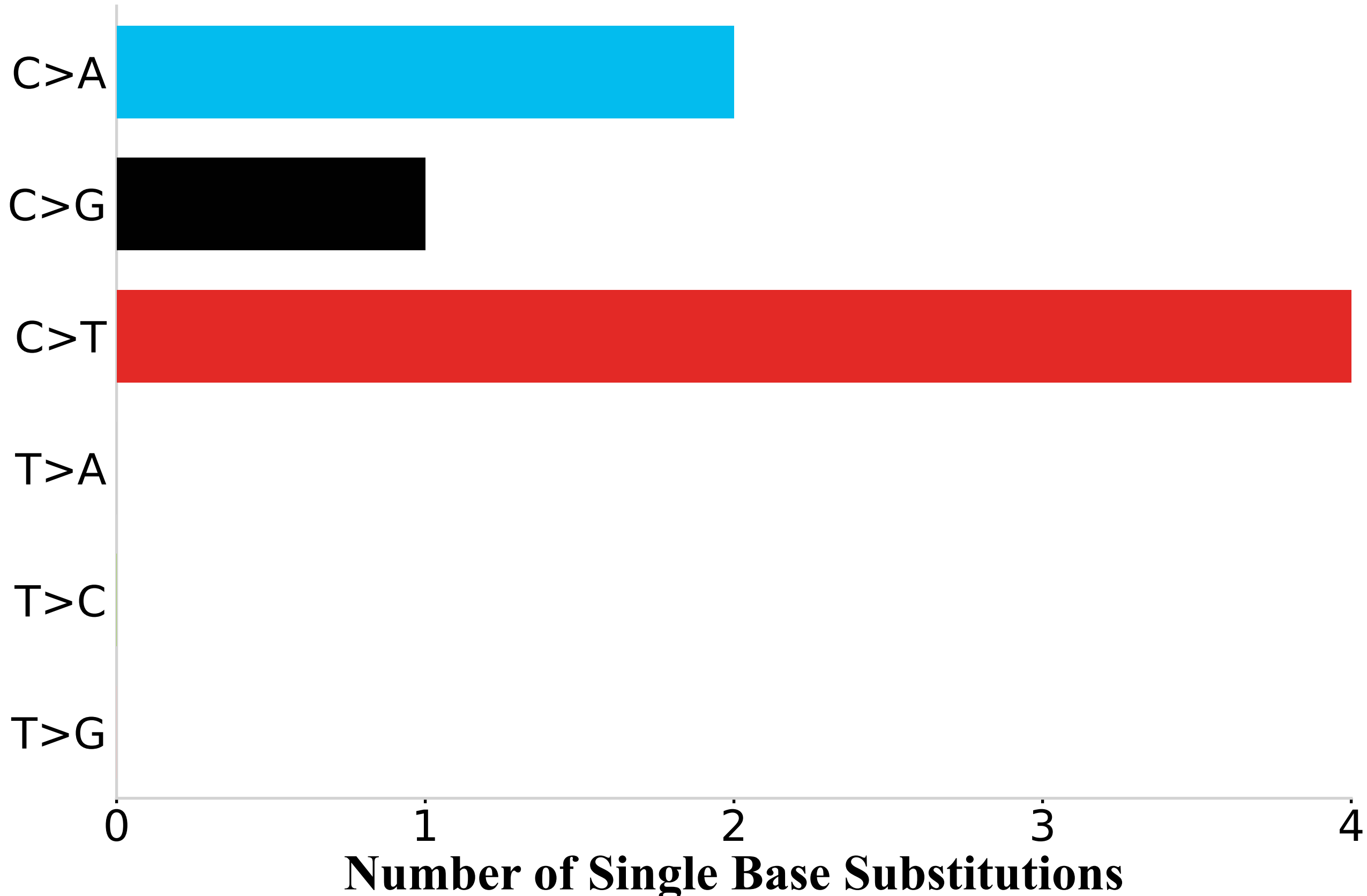
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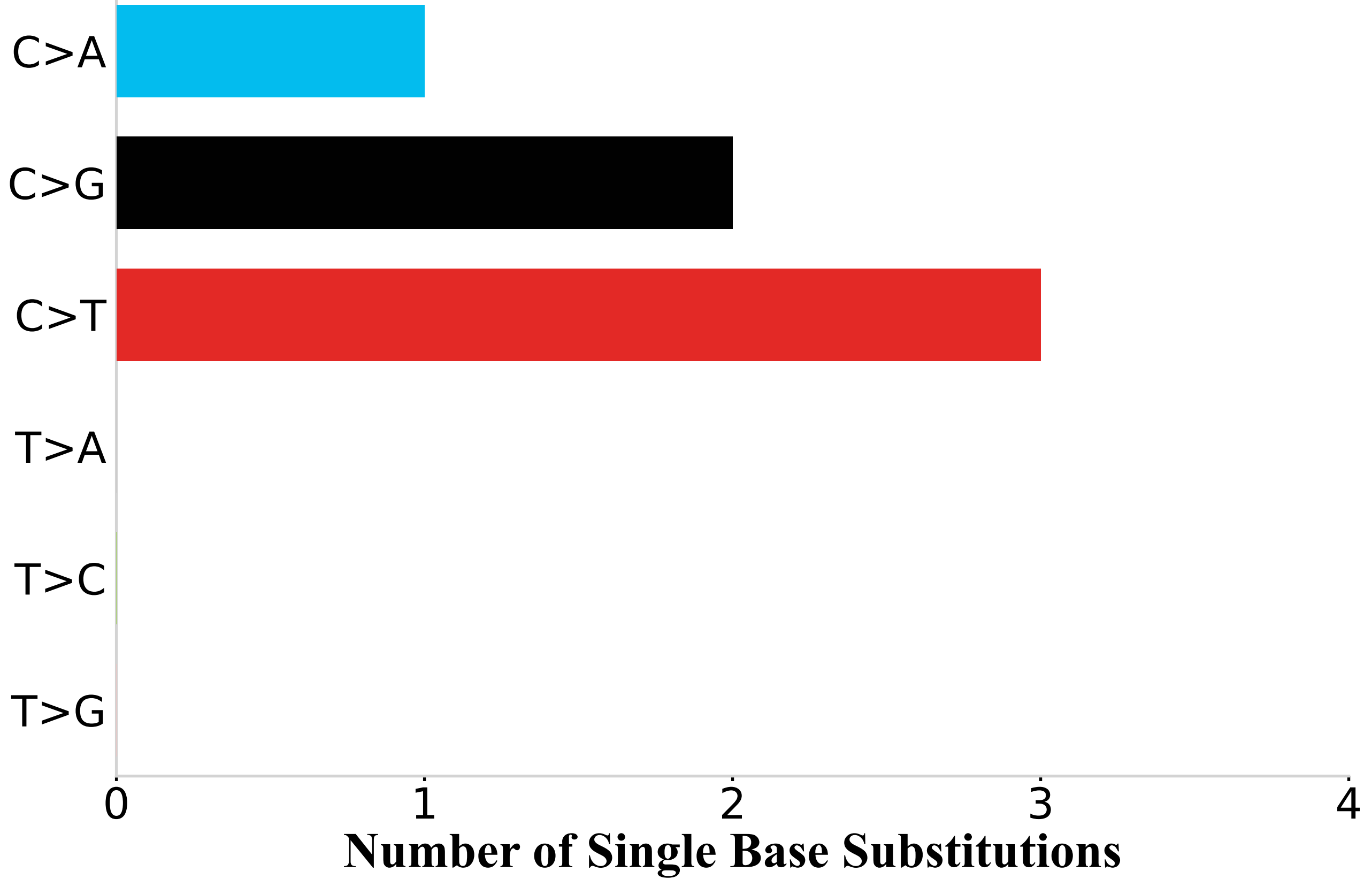
P-0022847-T01-IM6: 5 subs



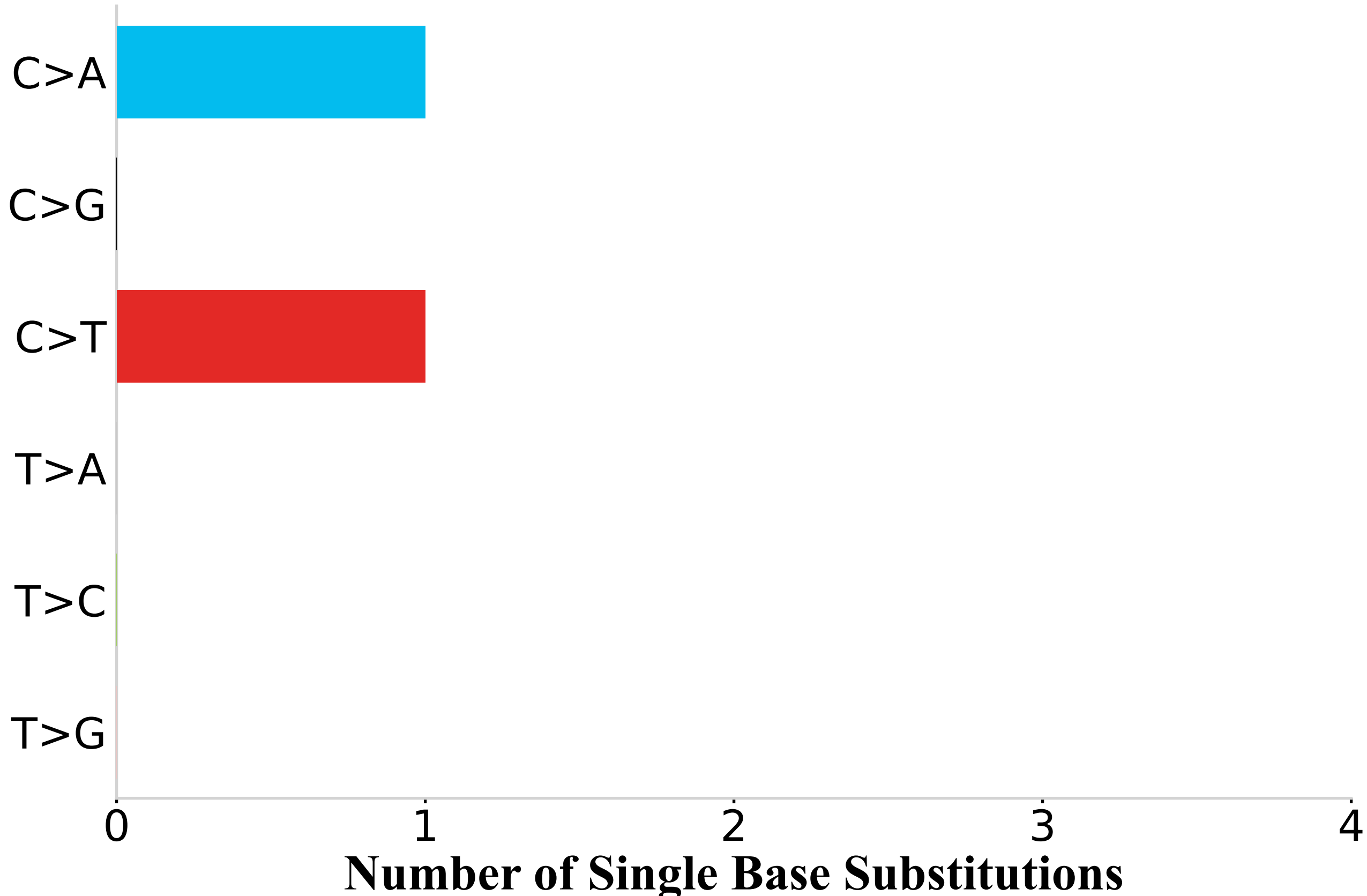
P-0022893-T01-IM6: 7 subs



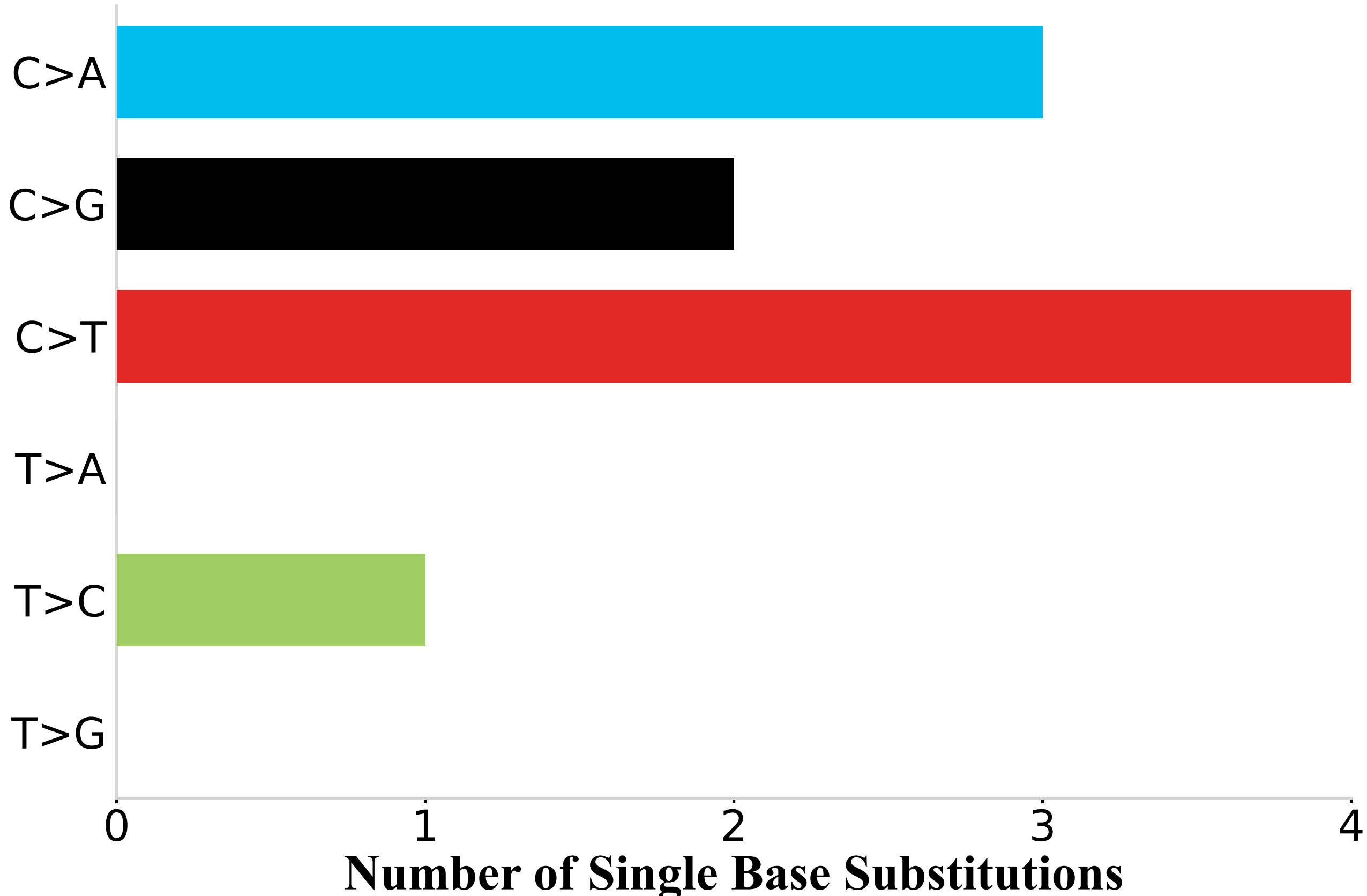
P-0022896-T01-IM6: 6 subs



P-0022936-T01-IM6: 2 subs



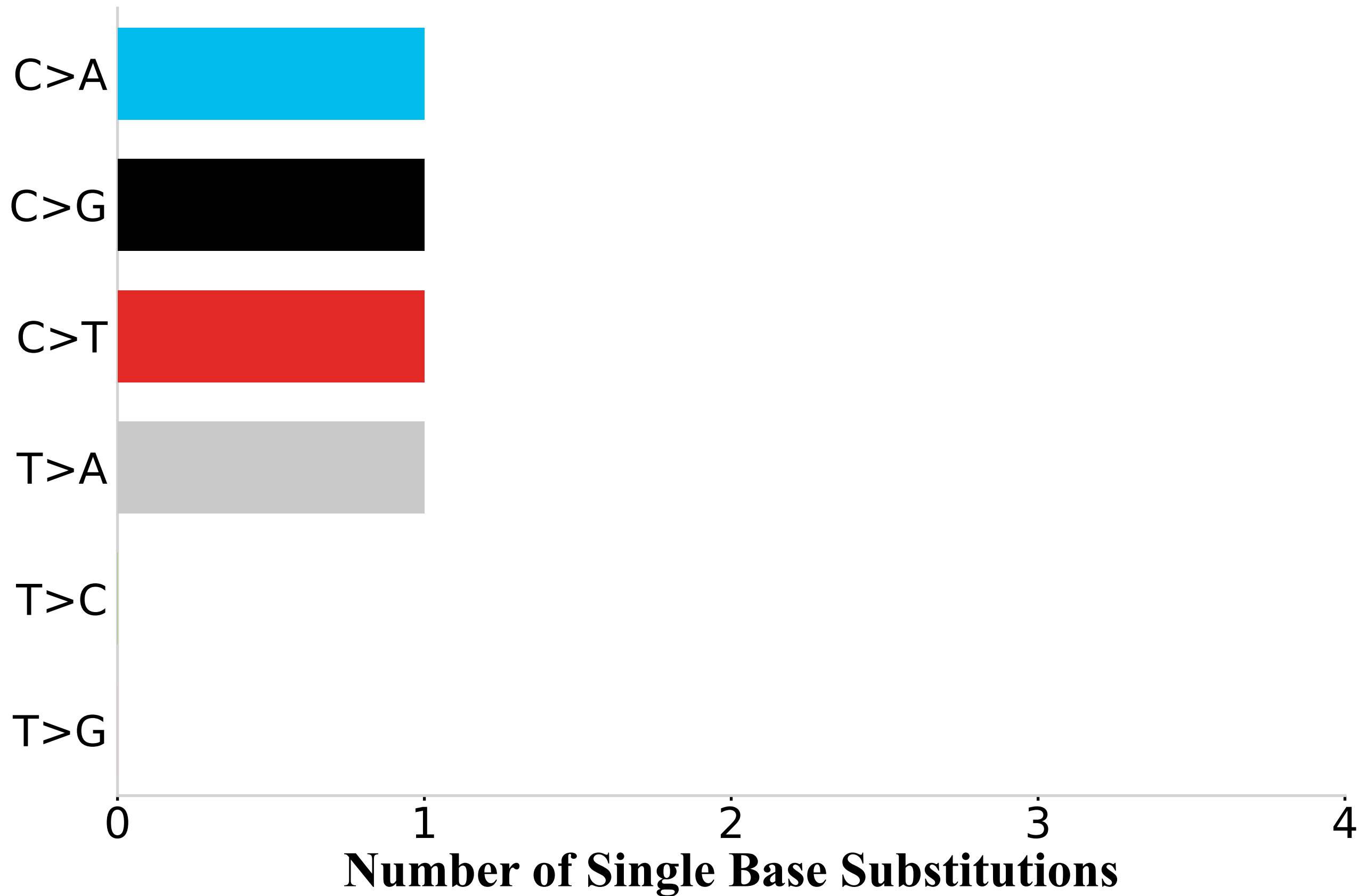
P-0022952-T01-IM6: 10 subs



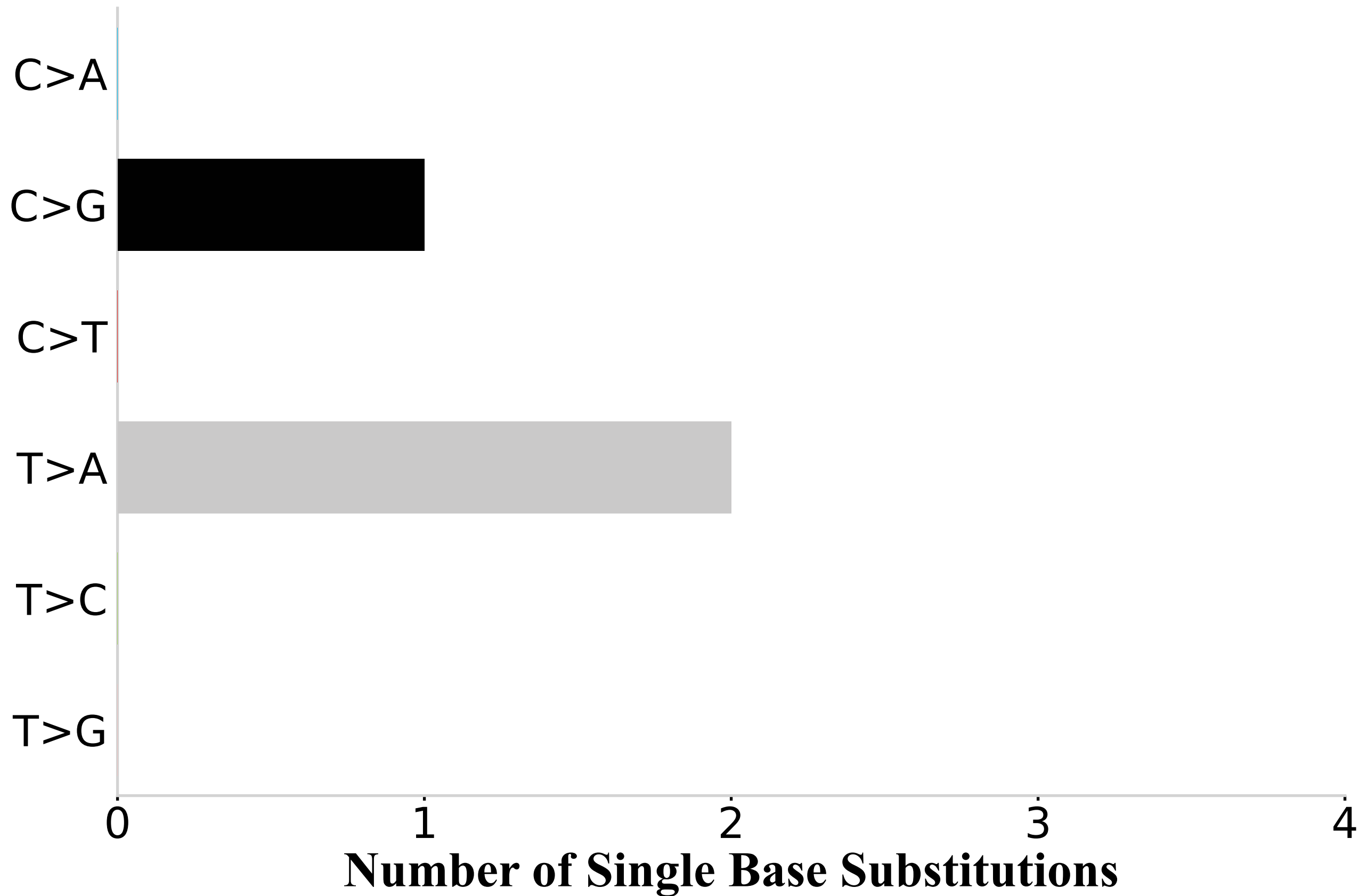
P-0023064-T01-IM6: 1 subs



P-0023129-T01-IM6: 4 subs



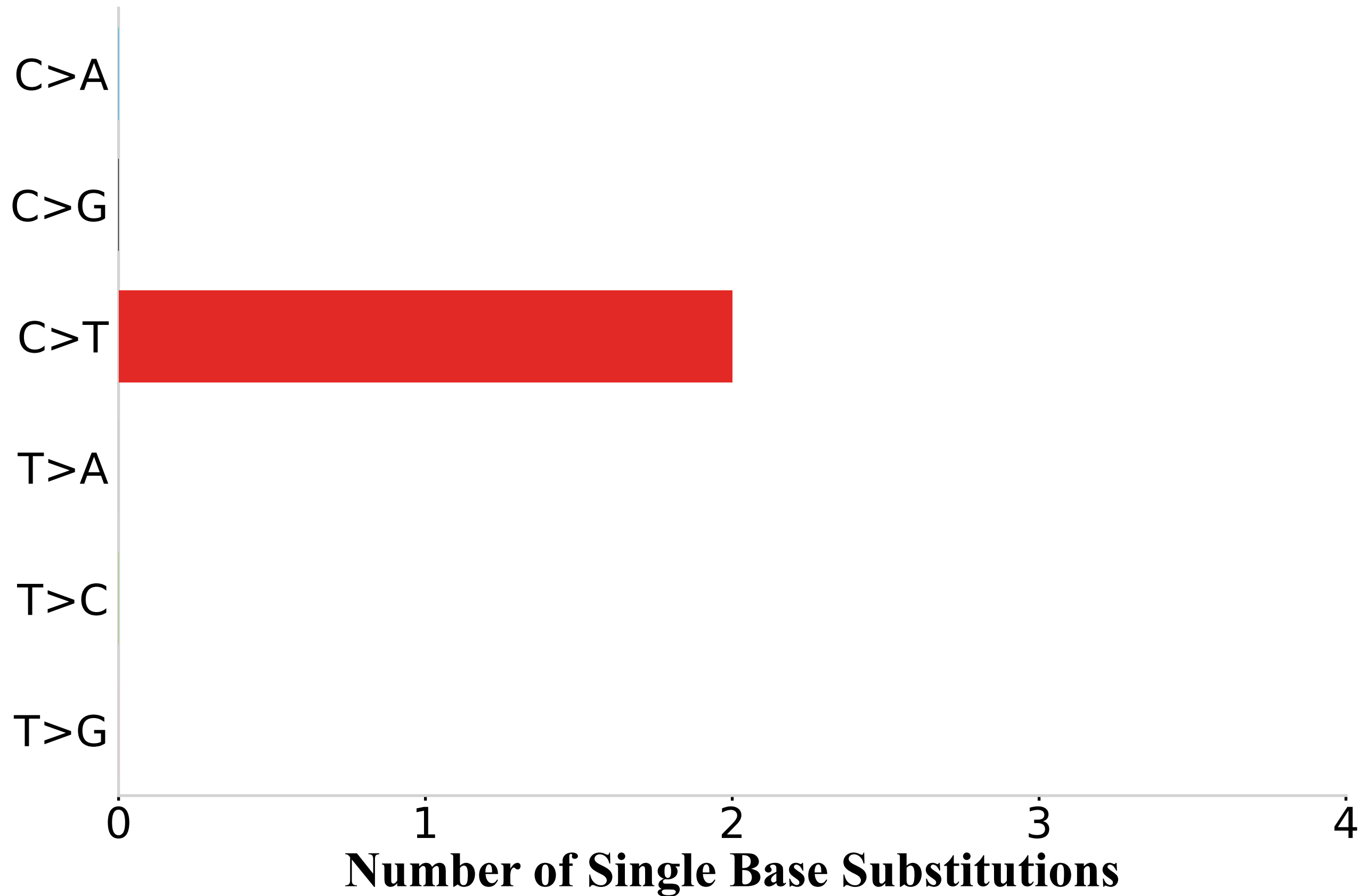
P-0023194-T01-IM6: 3 subs



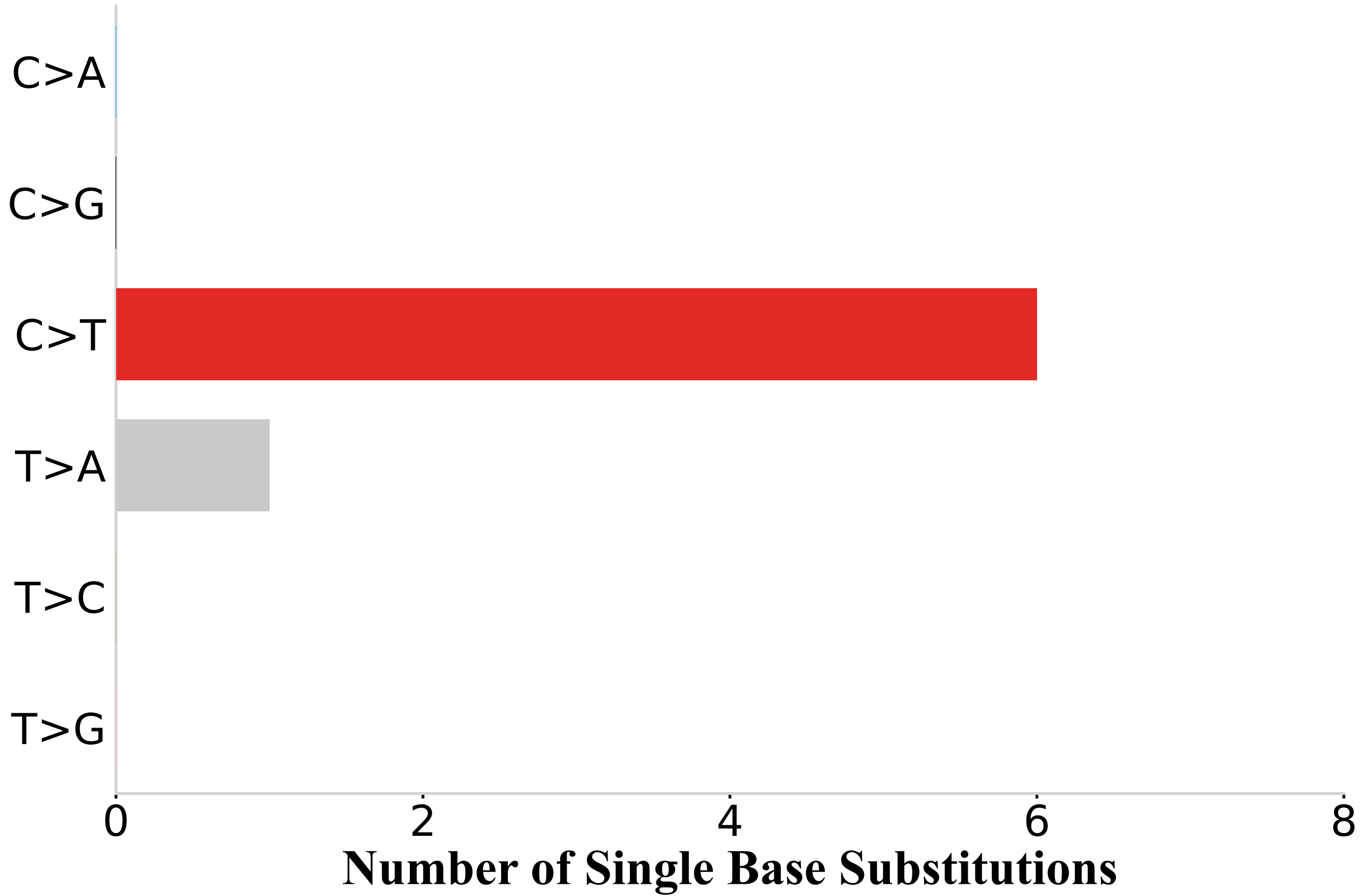
P-0023267-T01-IM6: 1 subs



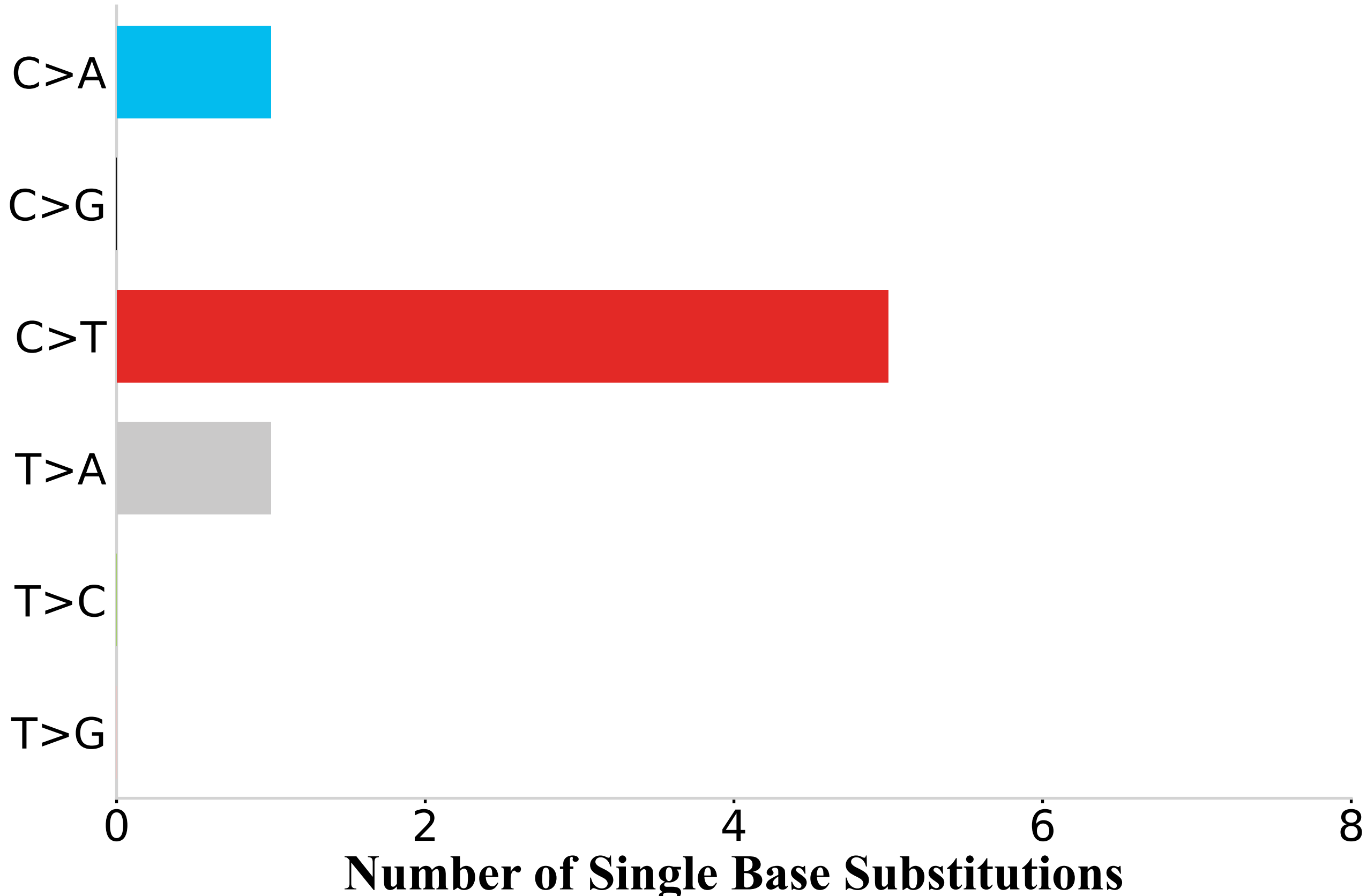
P-0023373-T01-IM6: 2 subs



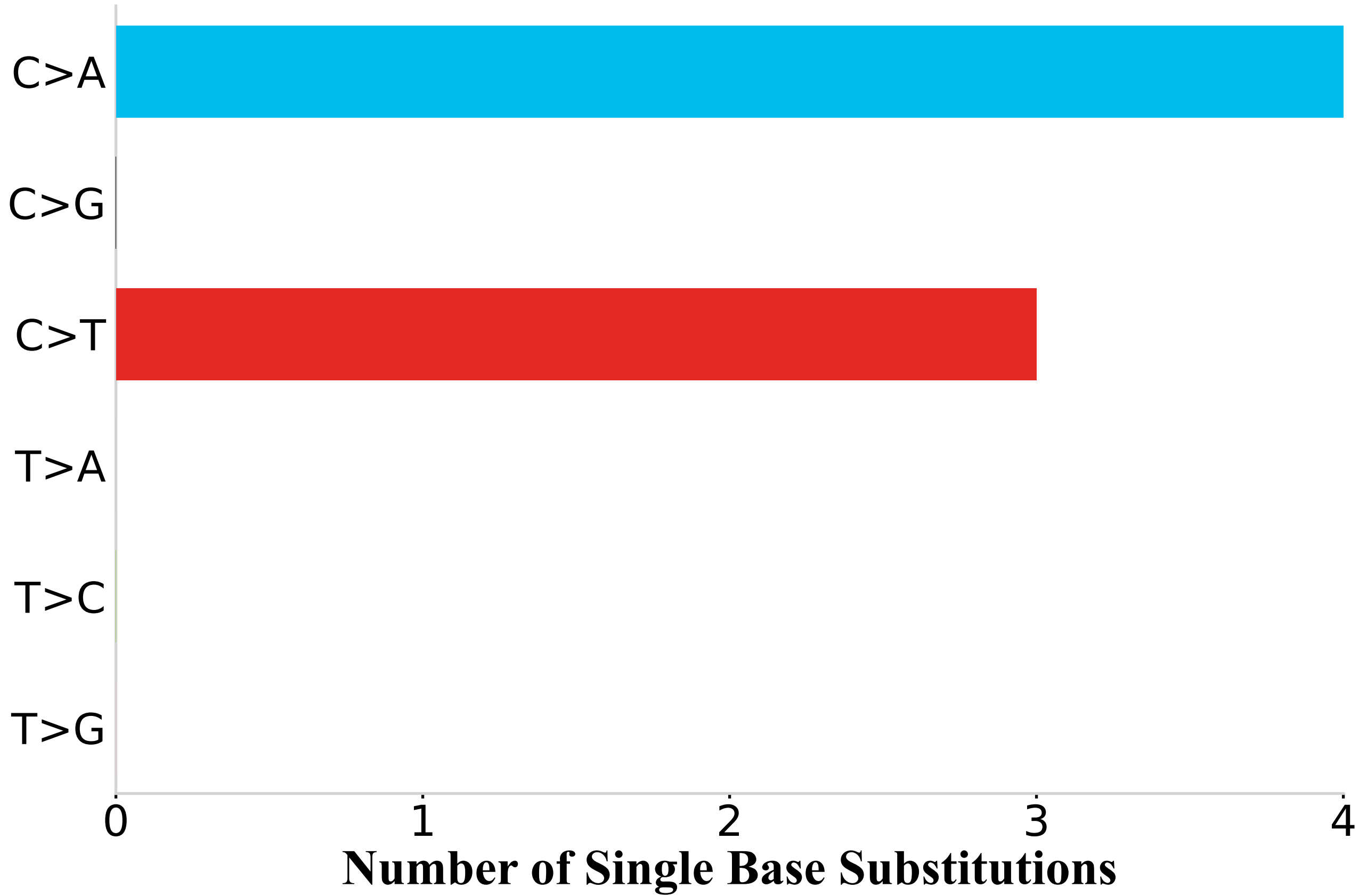
P-0023409-T01-IM6: 7 subs



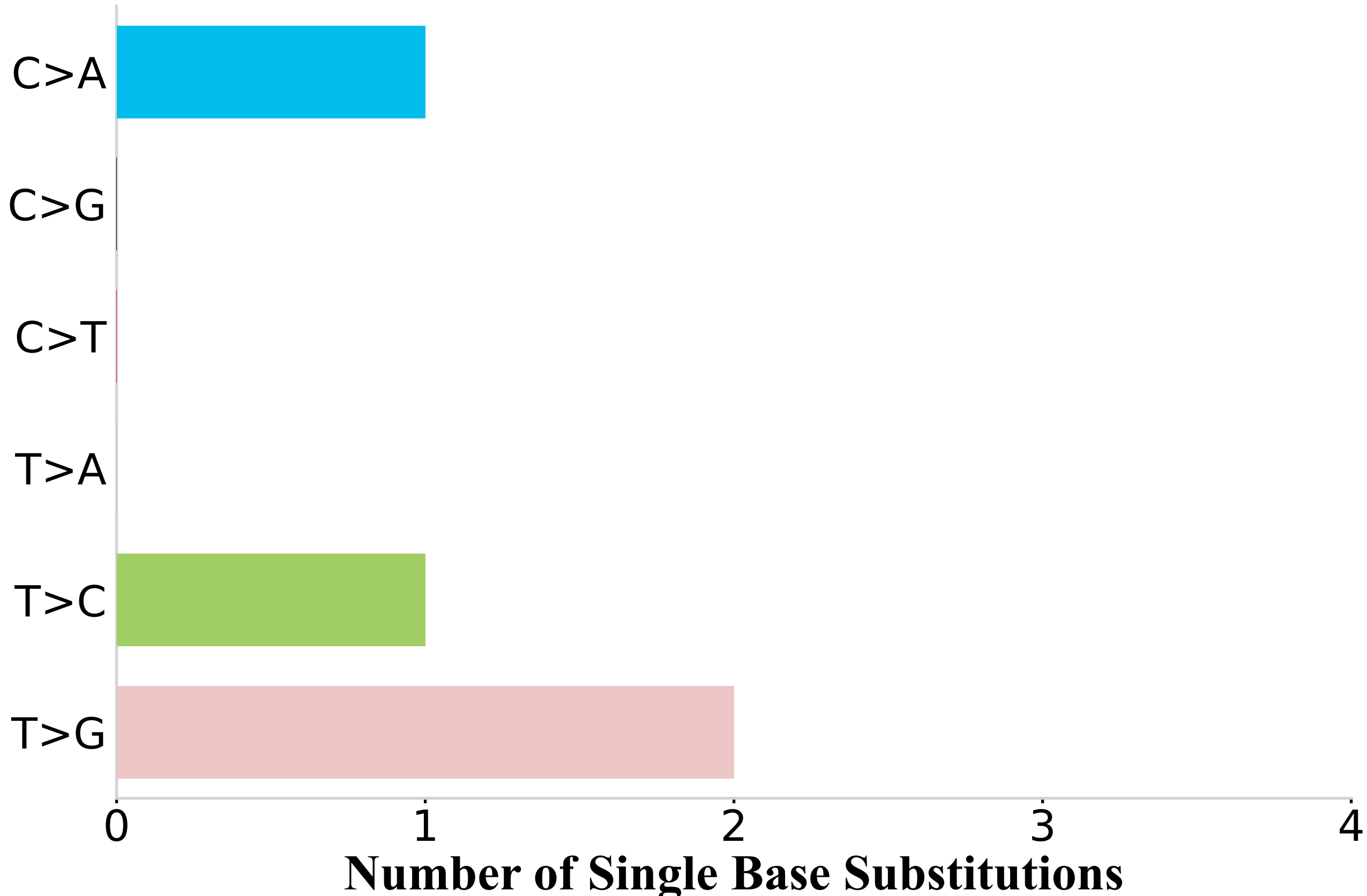
P-0023553-T02-IM6: 7 subs



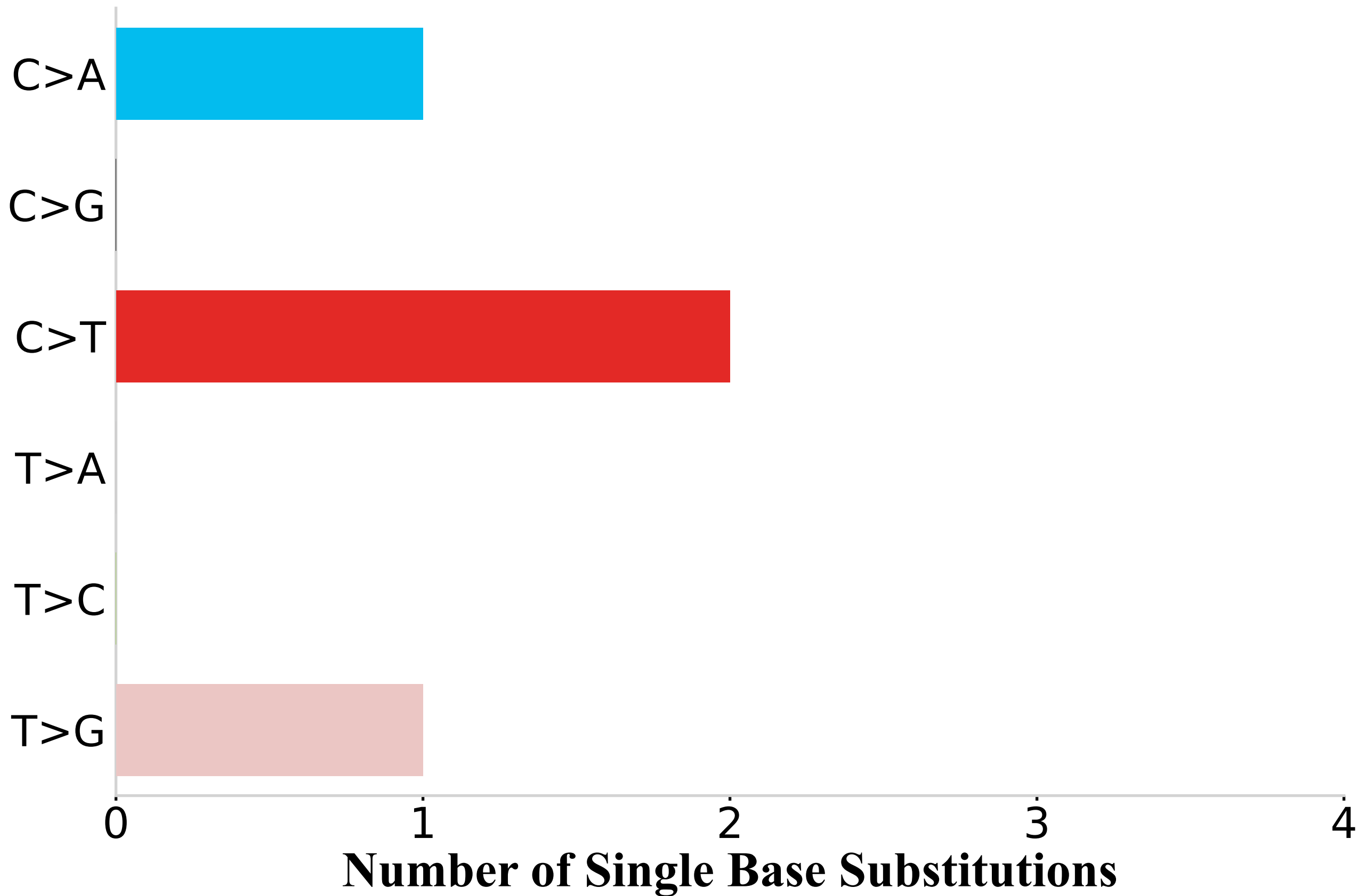
P-0023603-T01-IM6: 7 subs



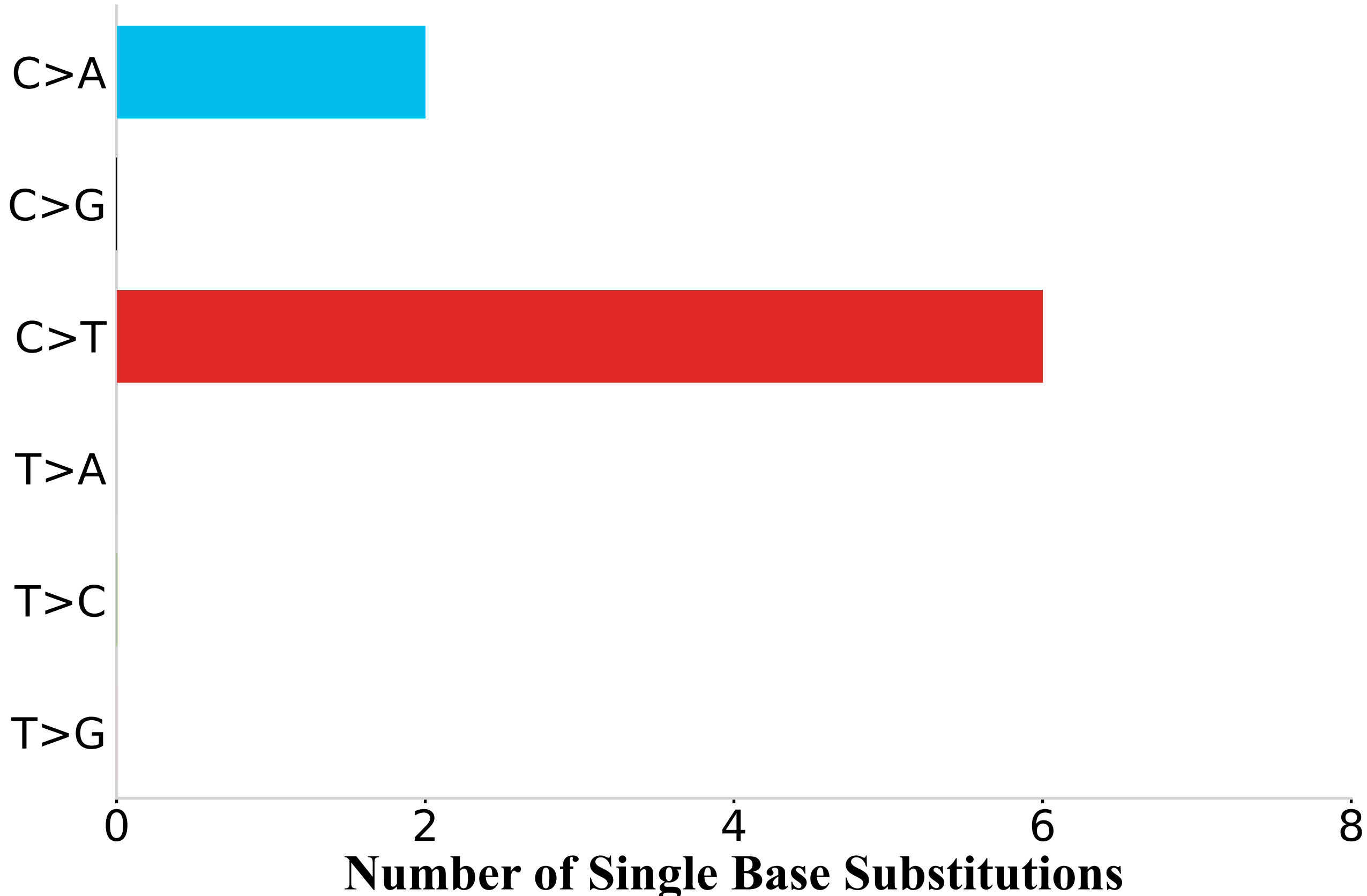
P-0023627-T02-IM6: 4 subs



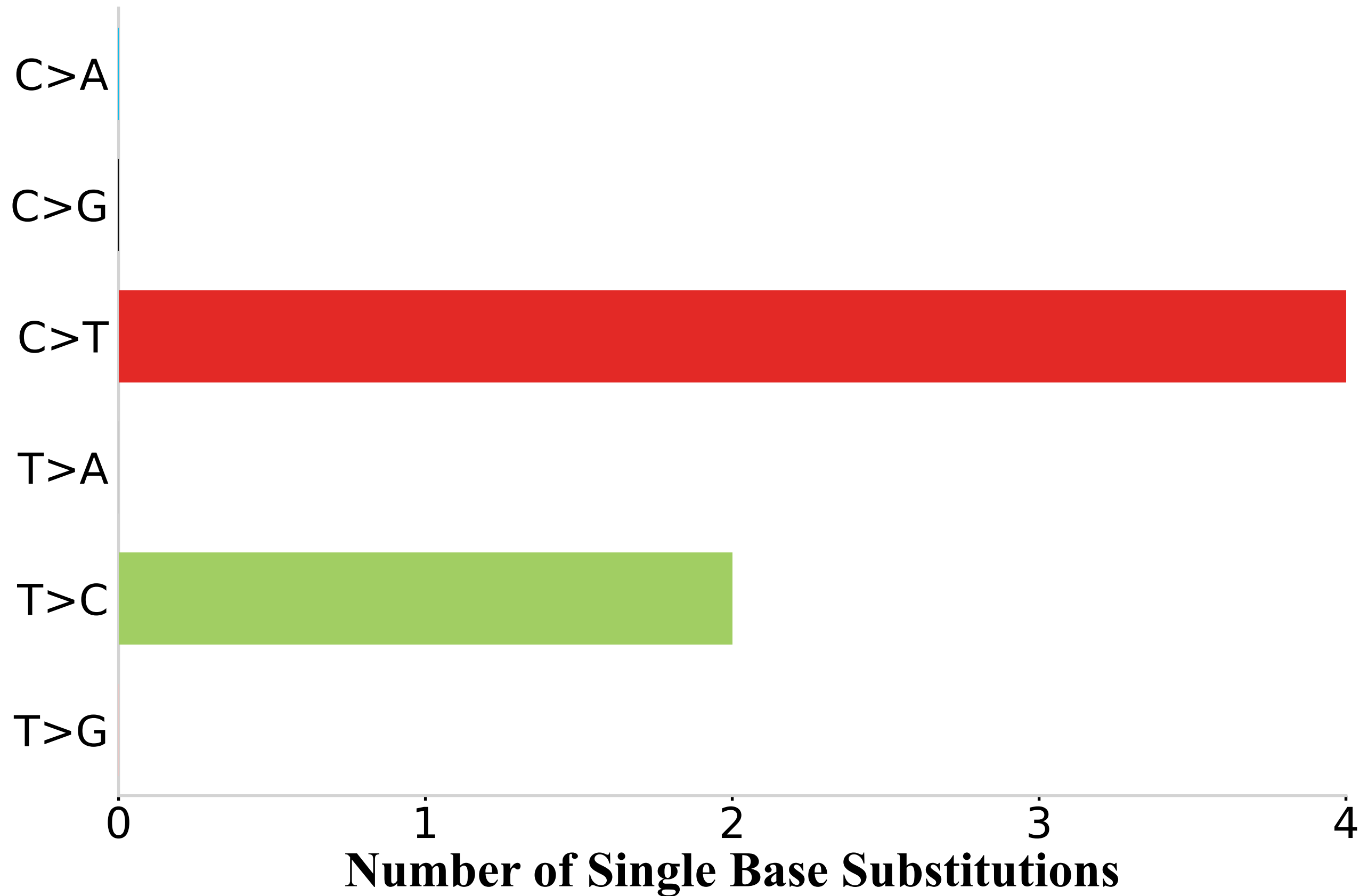
P-0023669-T01-IM6: 4 subs



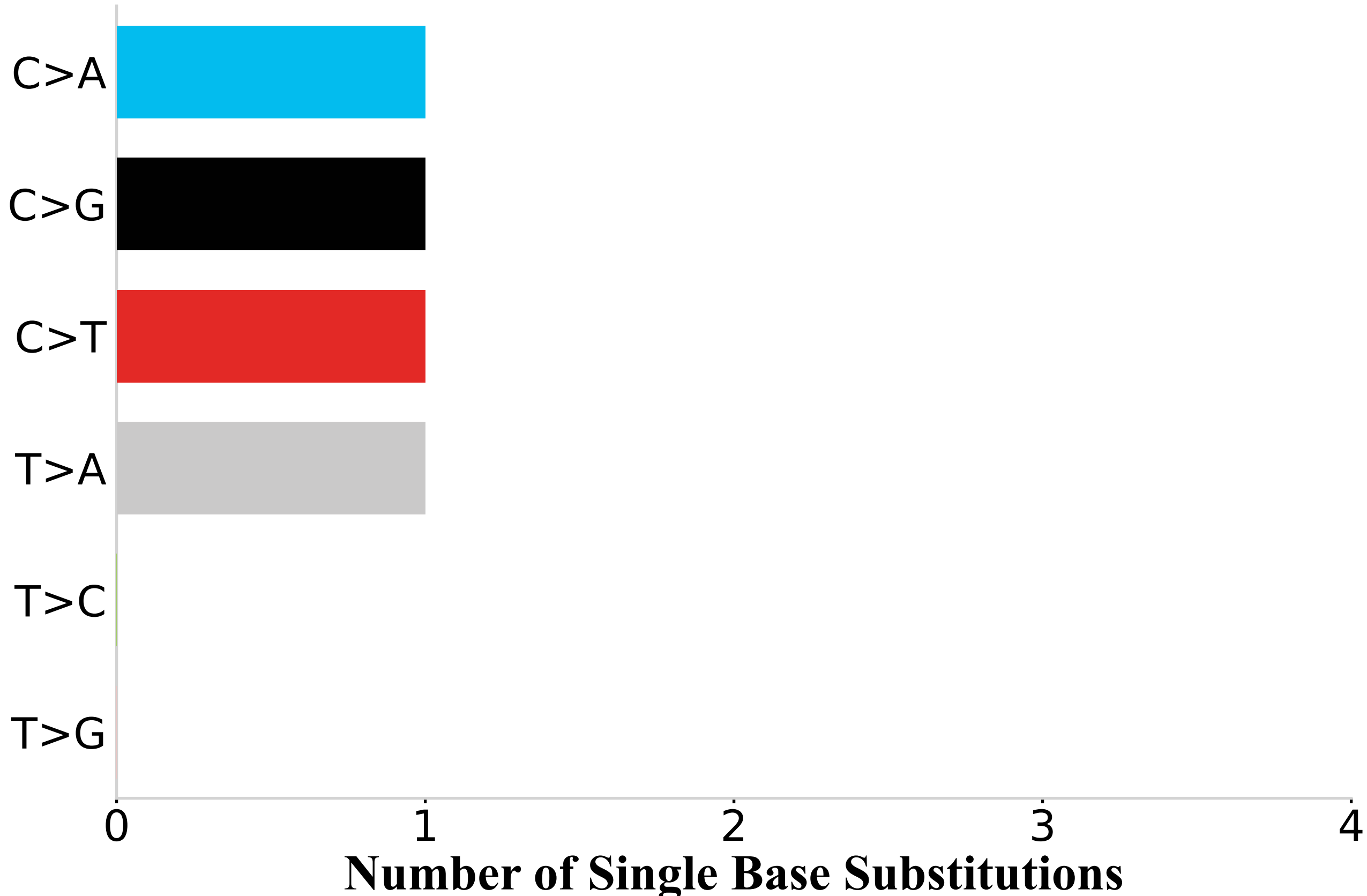
P-0023738-T01-IM6: 8 subs



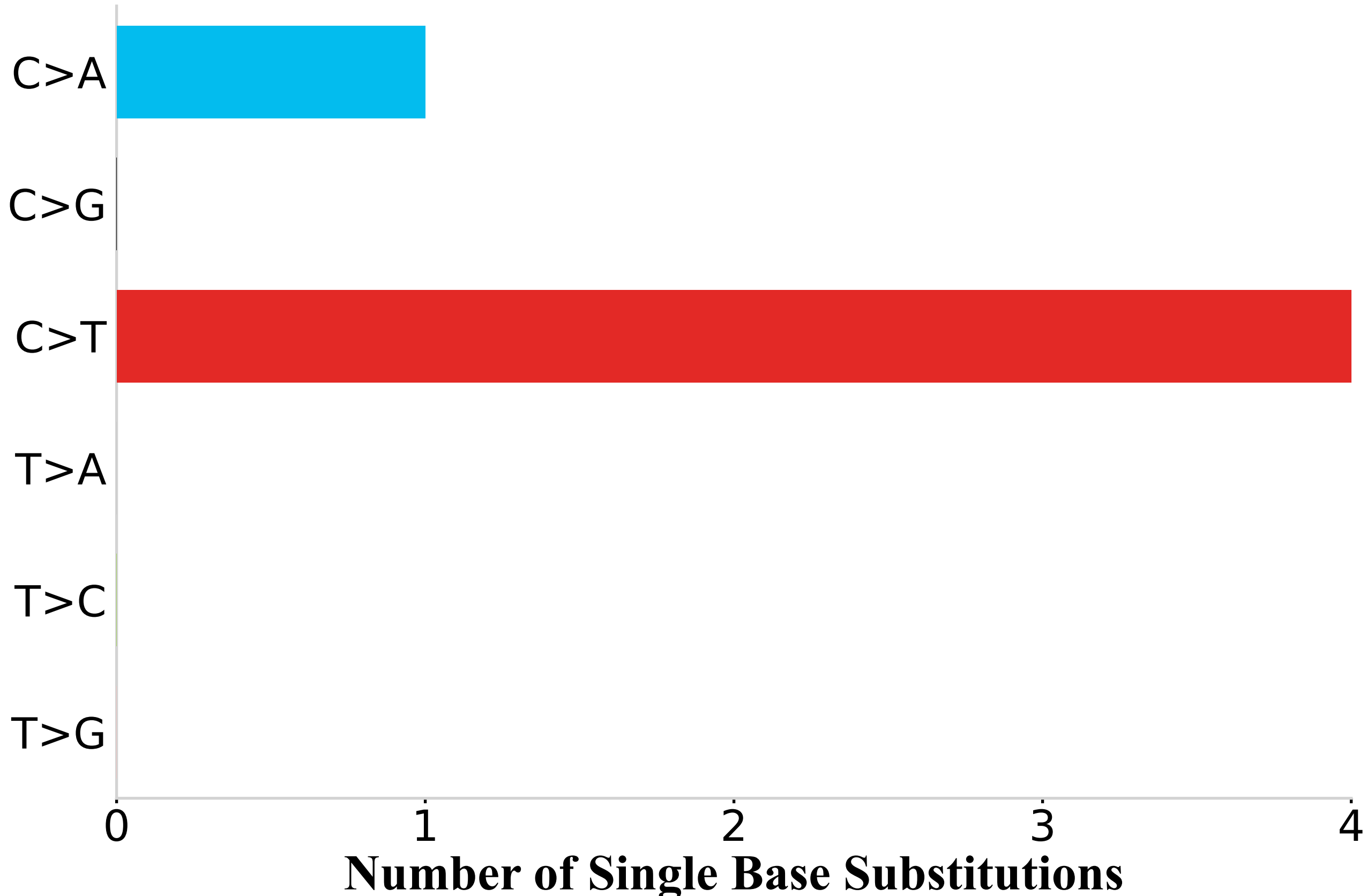
P-0023941-T01-IM6: 6 subs



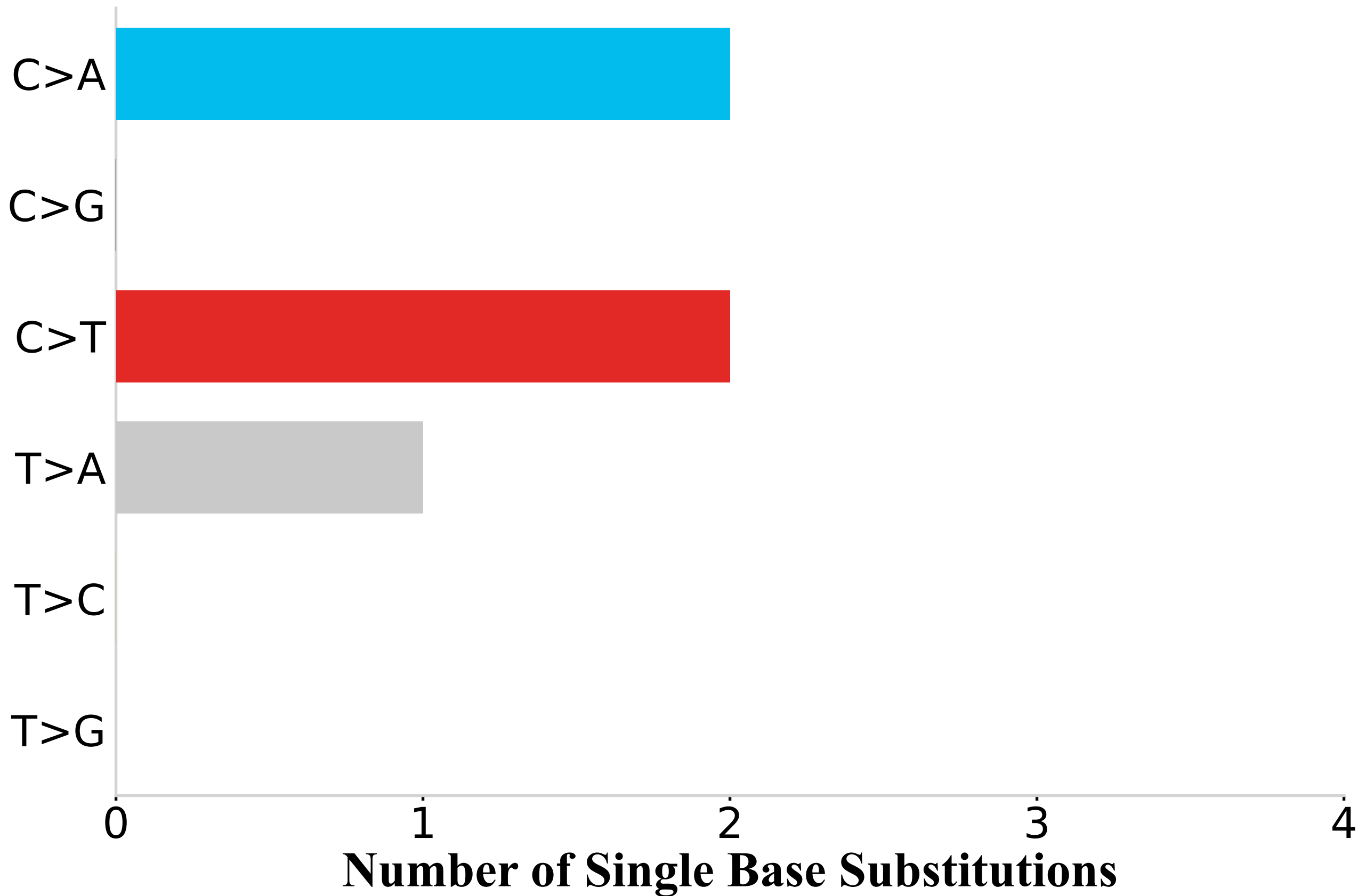
P-0024088-T02-IM6: 4 subs



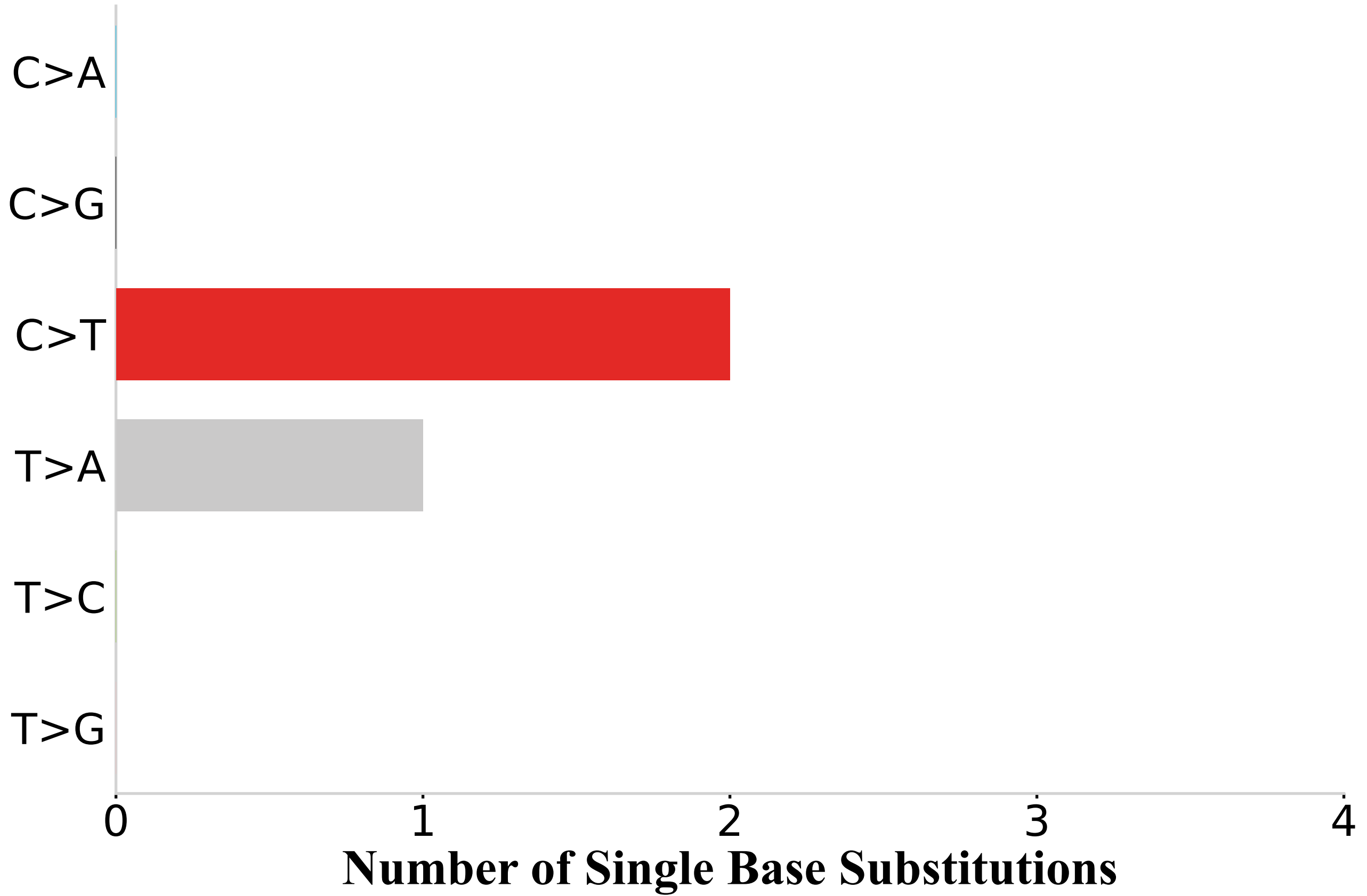
P-0024258-T01-IM6: 5 subs



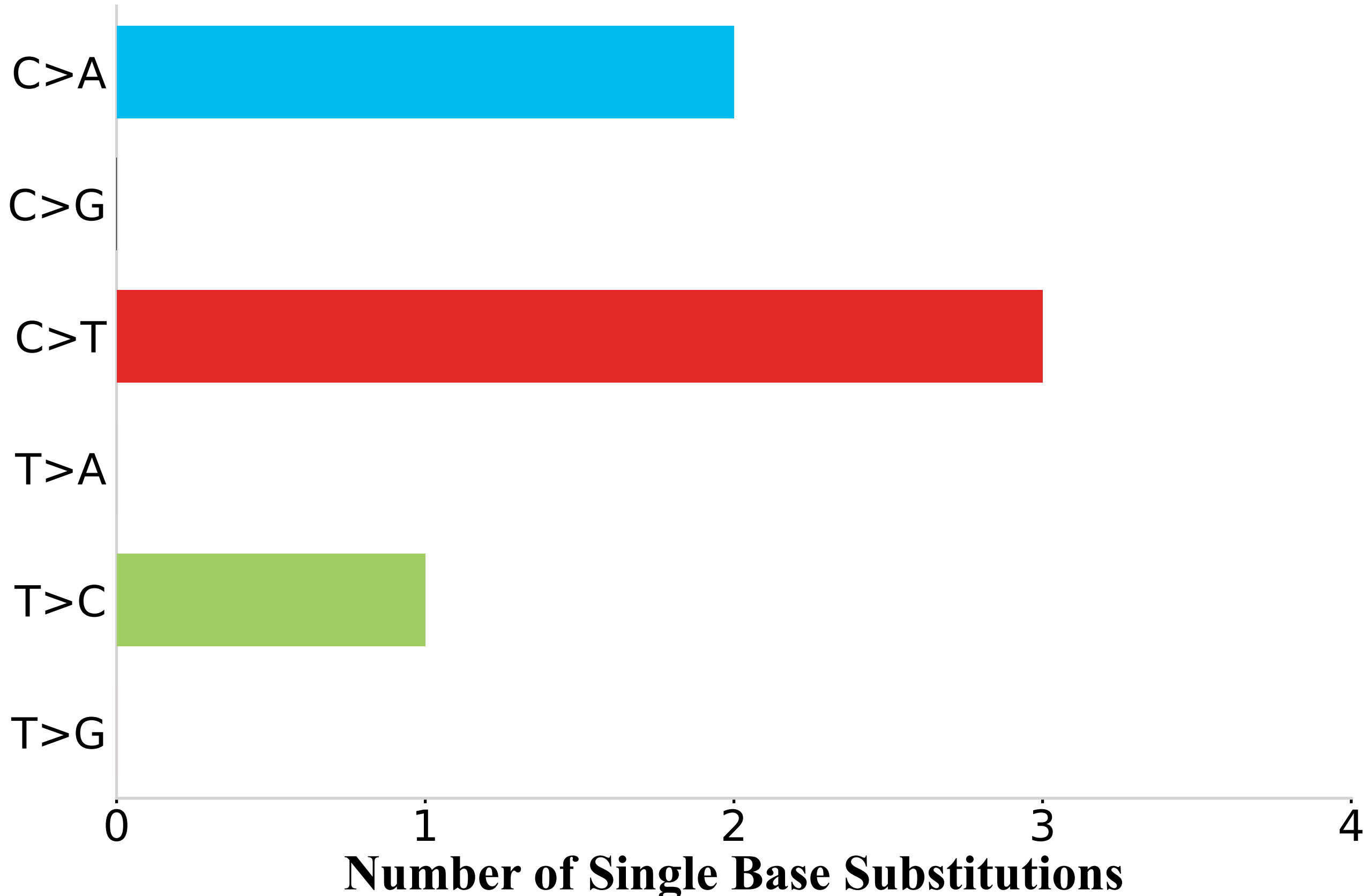
P-0024359-T01-IM6: 5 subs



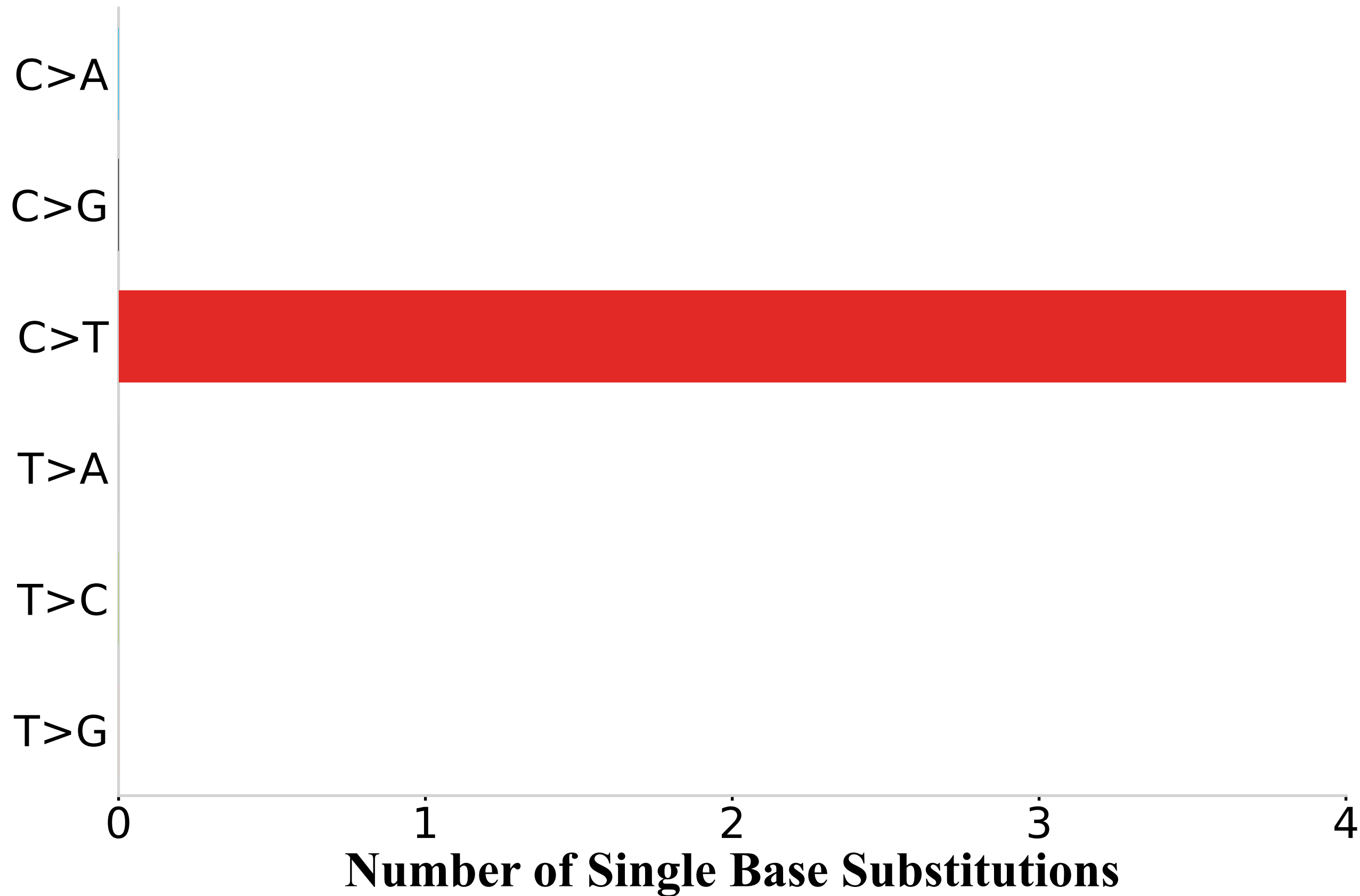
P-0024527-T01-IM6: 3 subs



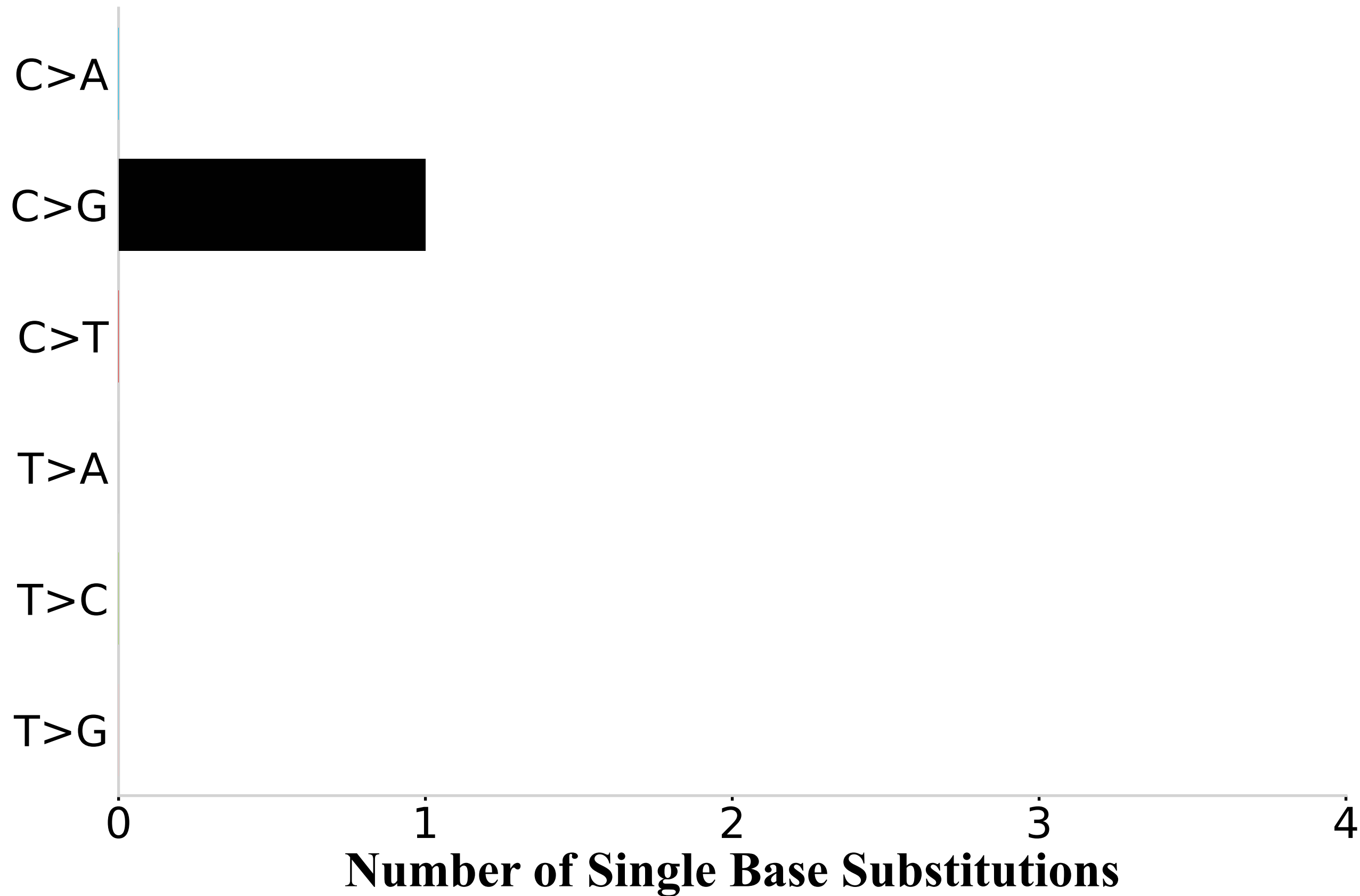
P-0024543-T01-IM6: 6 subs



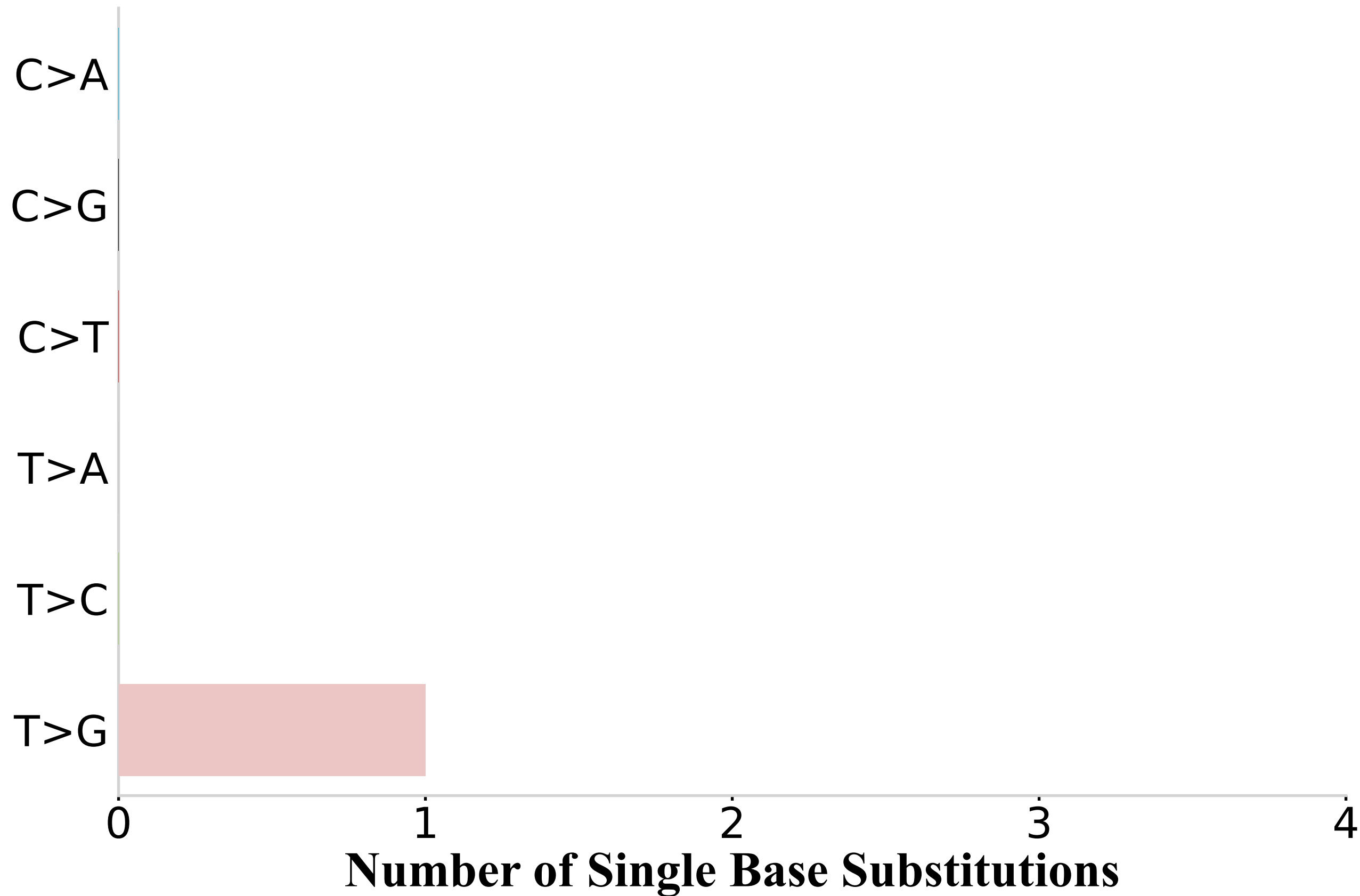
P-0024674-T01-IM6: 4 subs



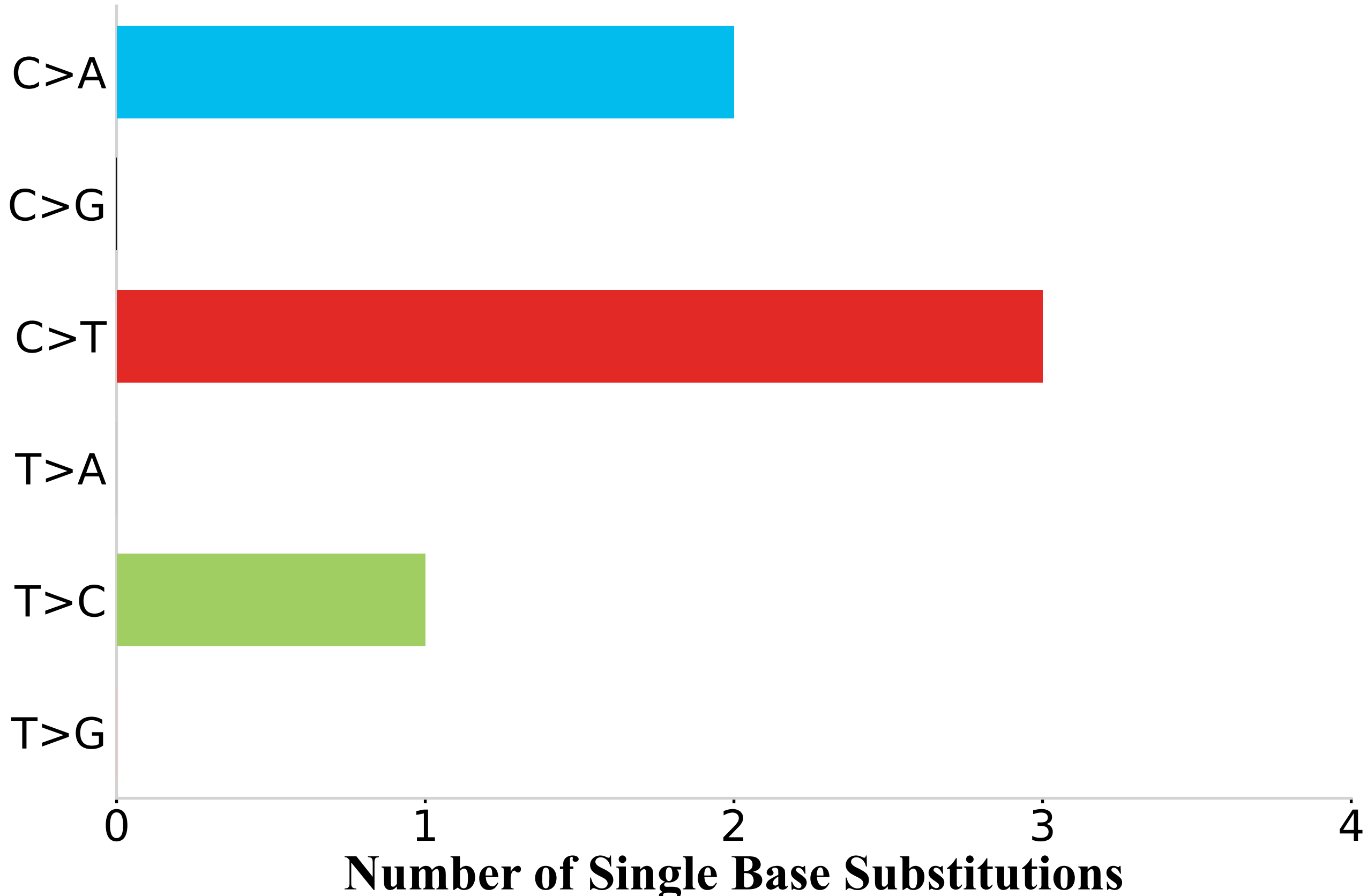
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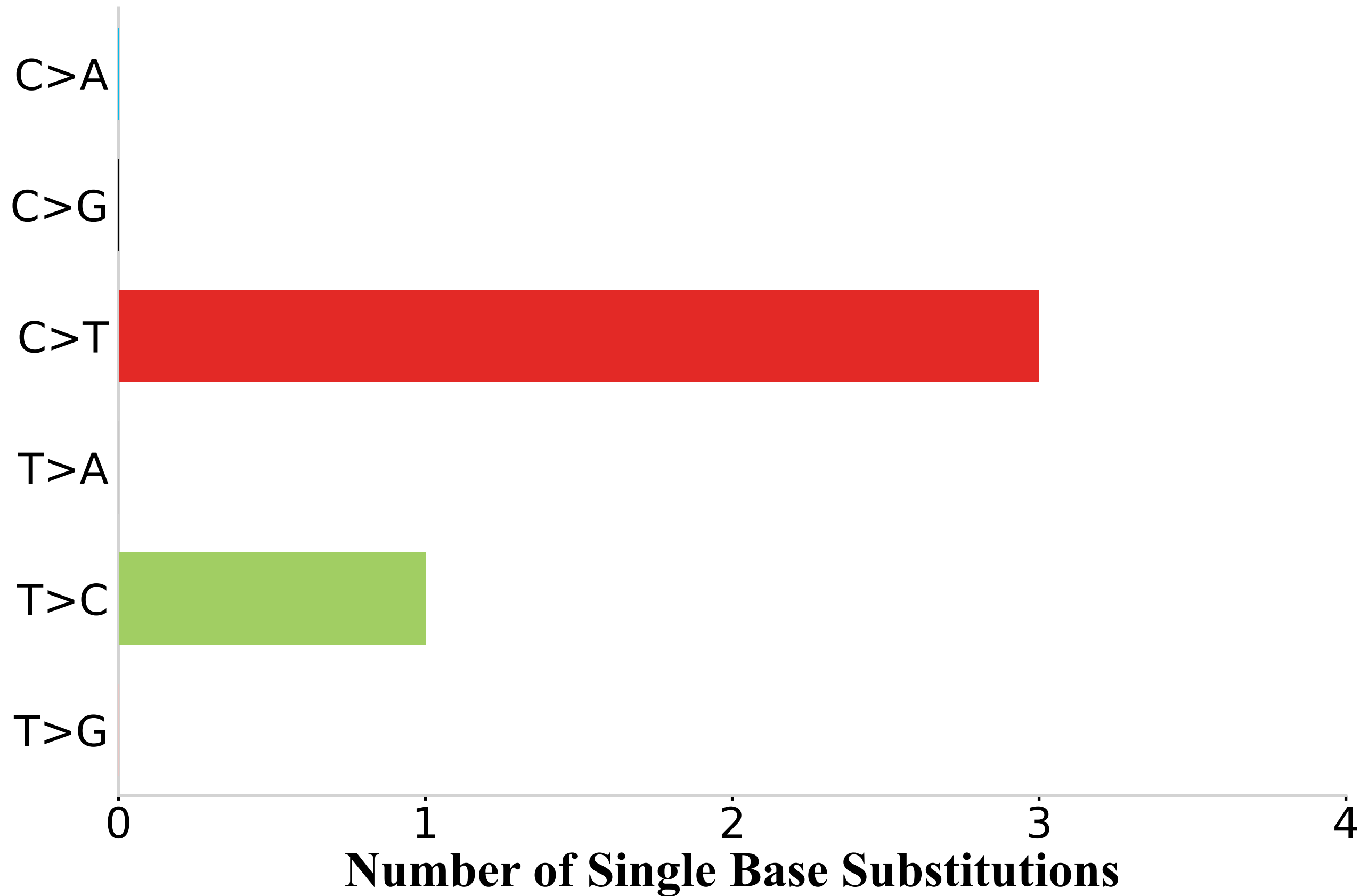
P-0025146-T02-IM6: 1 subs



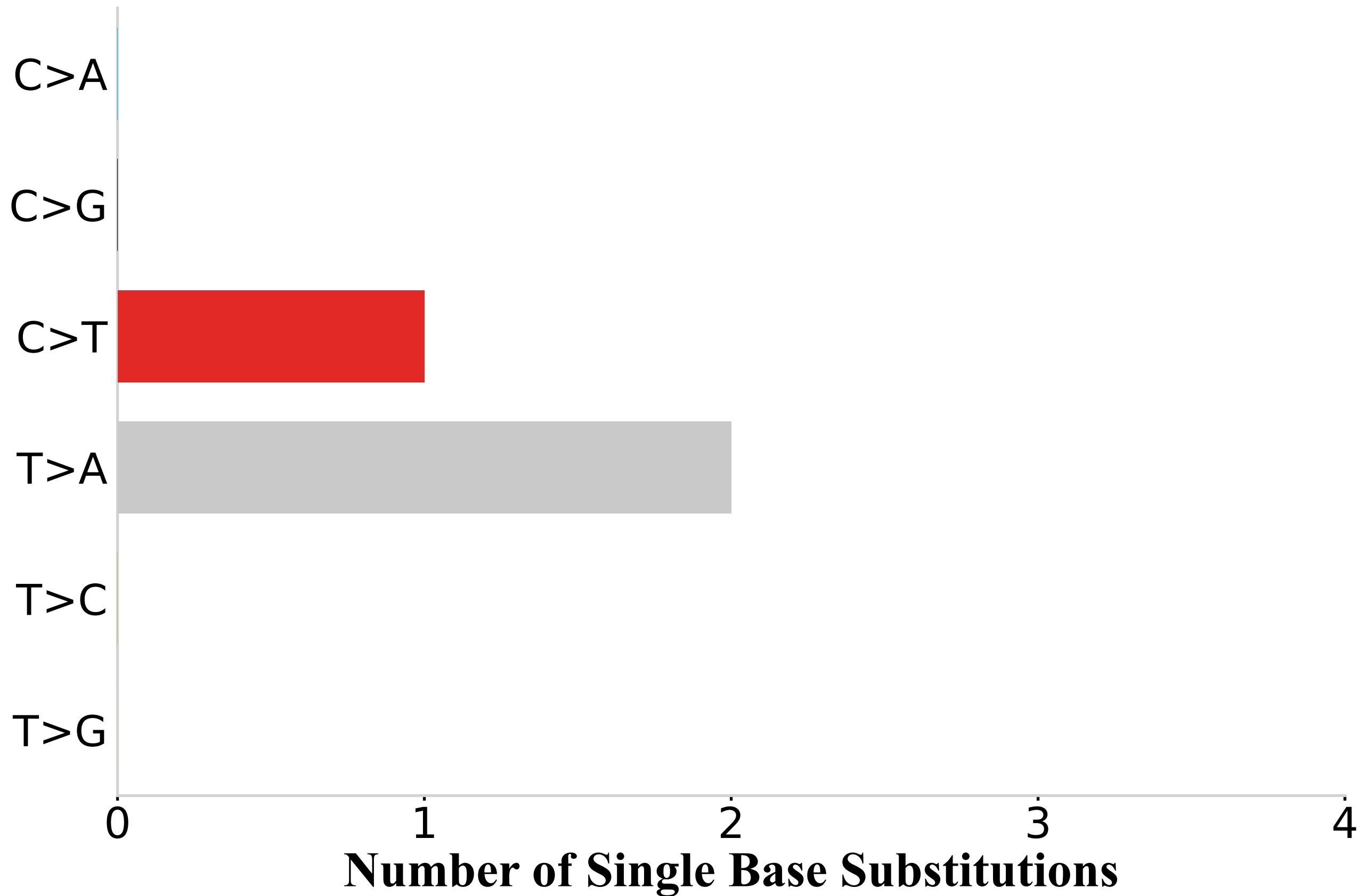
P-0025394-T01-IM6: 6 subs



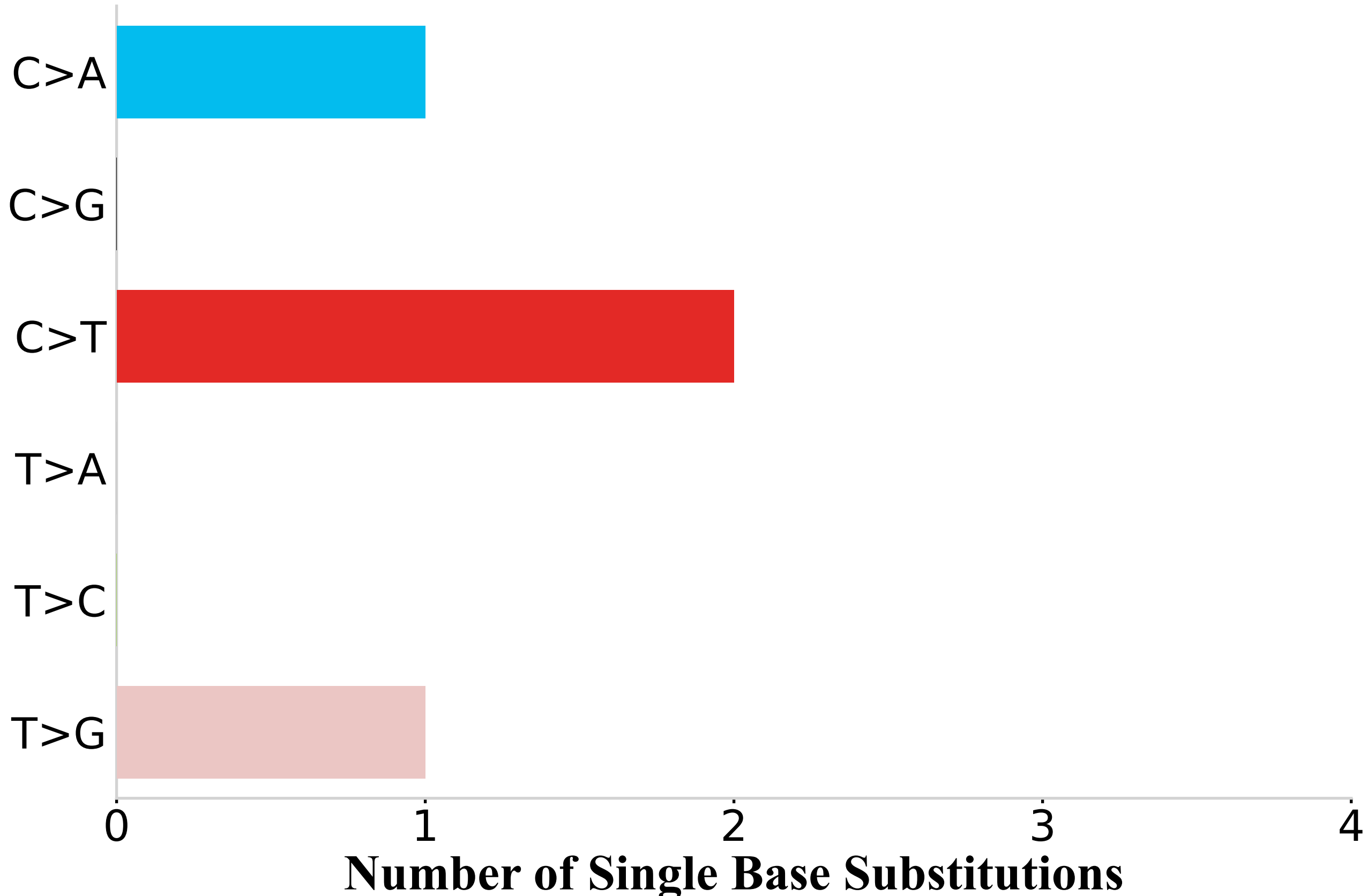
P-0025471-T01-IM6: 4 subs



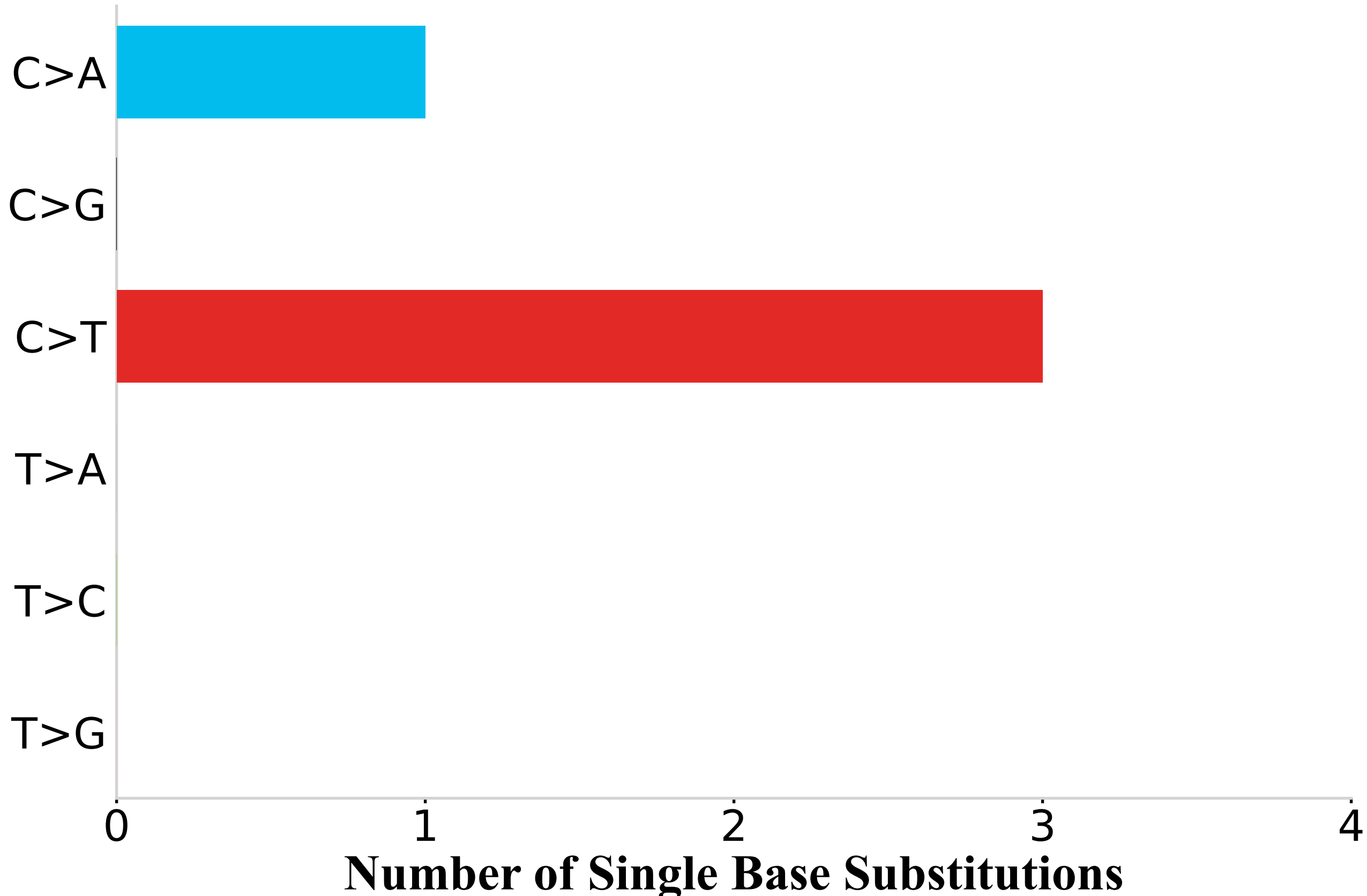
P-0025770-T01-IM6: 3 subs



P-0025857-T01-IM6: 4 subs



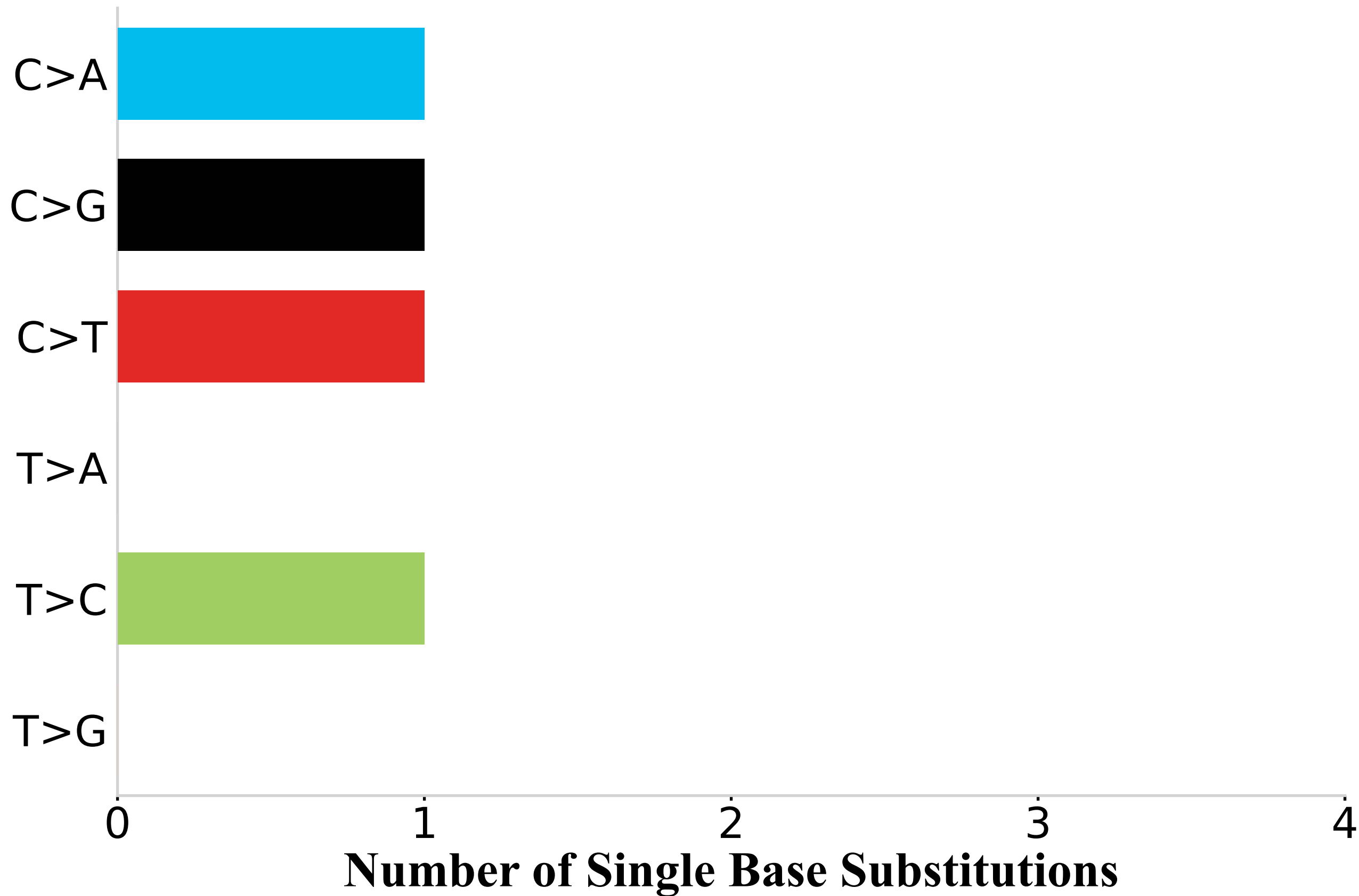
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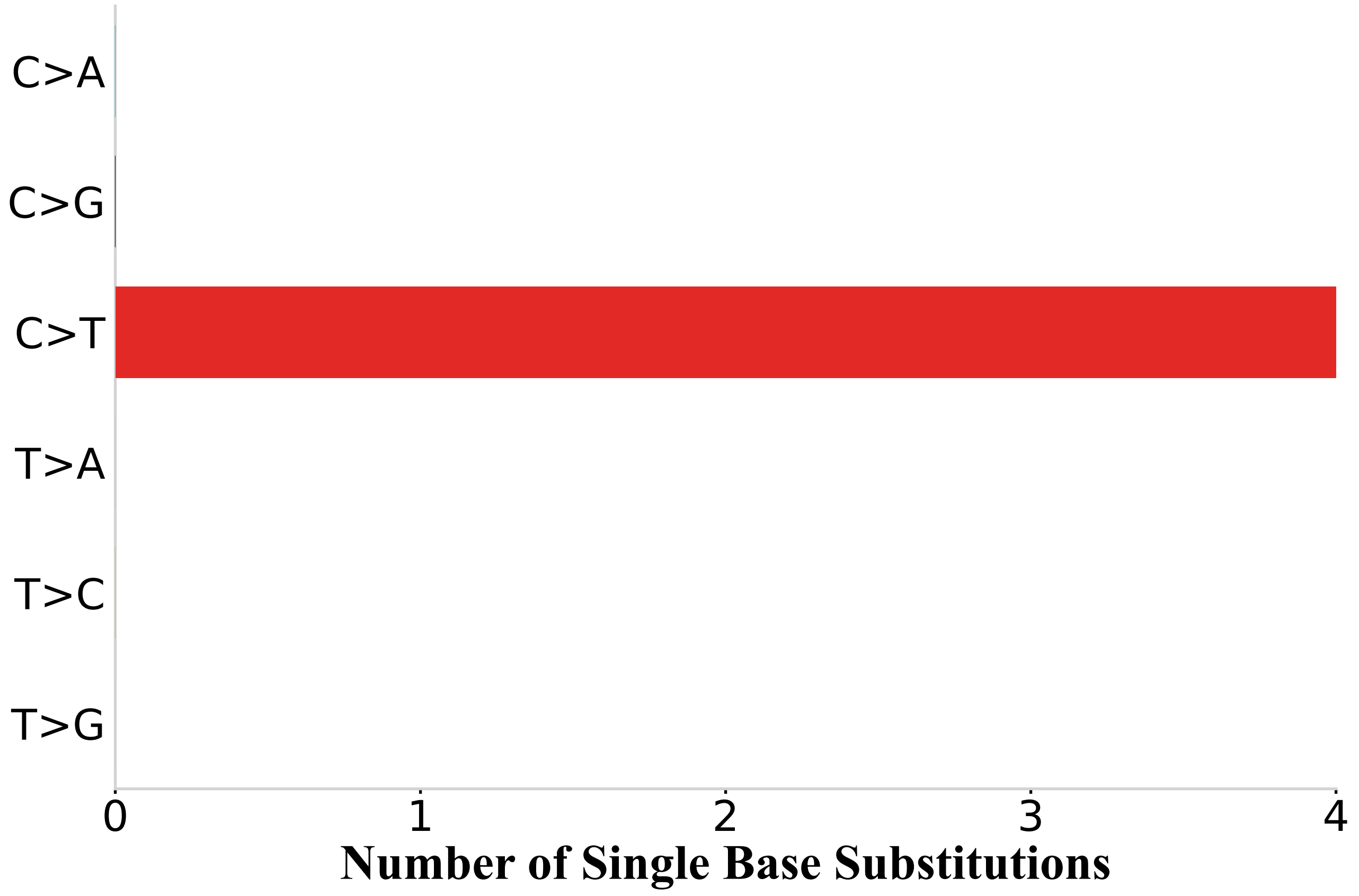
P-0025889-T01-IM6: 1 subs



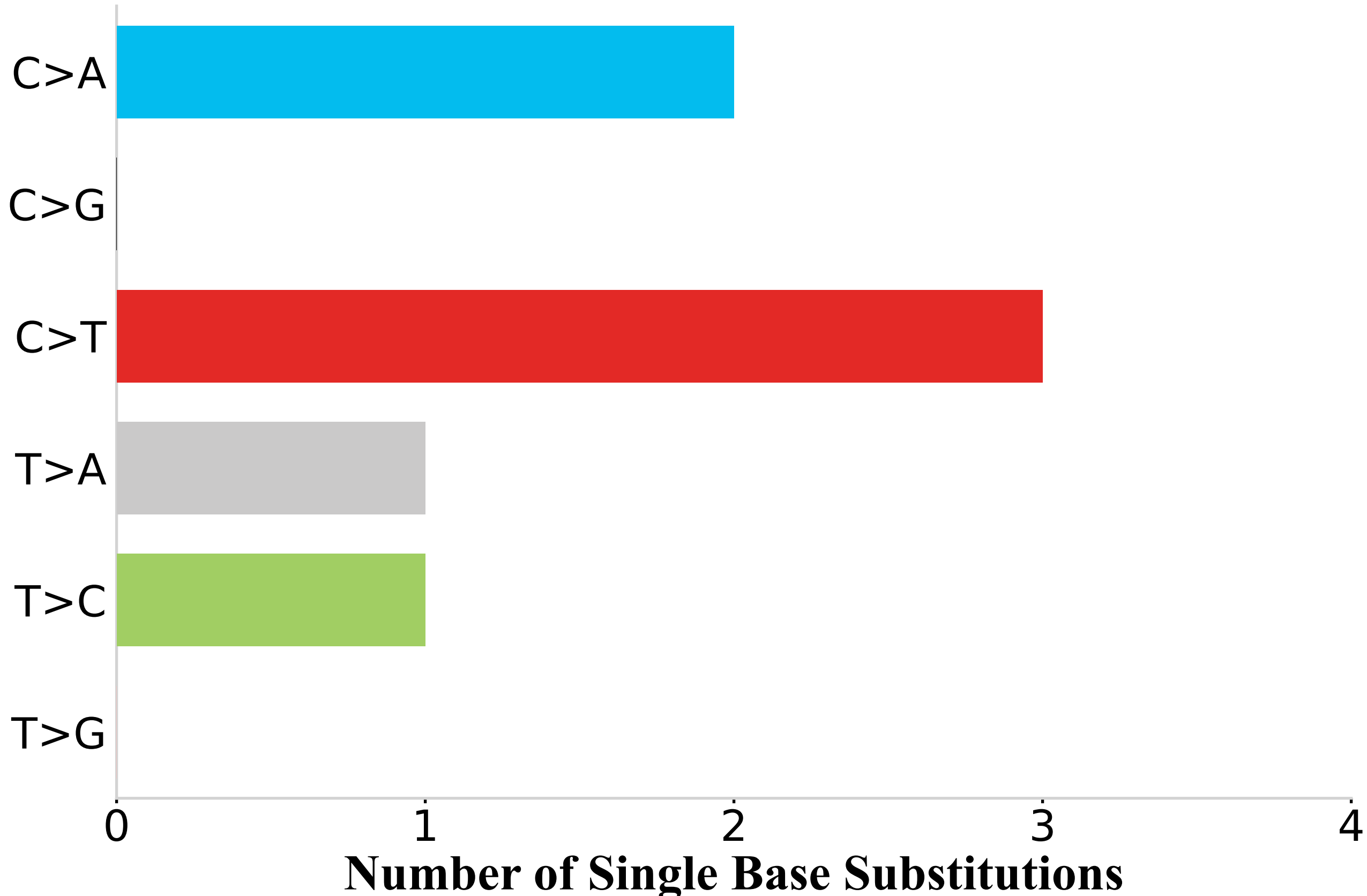
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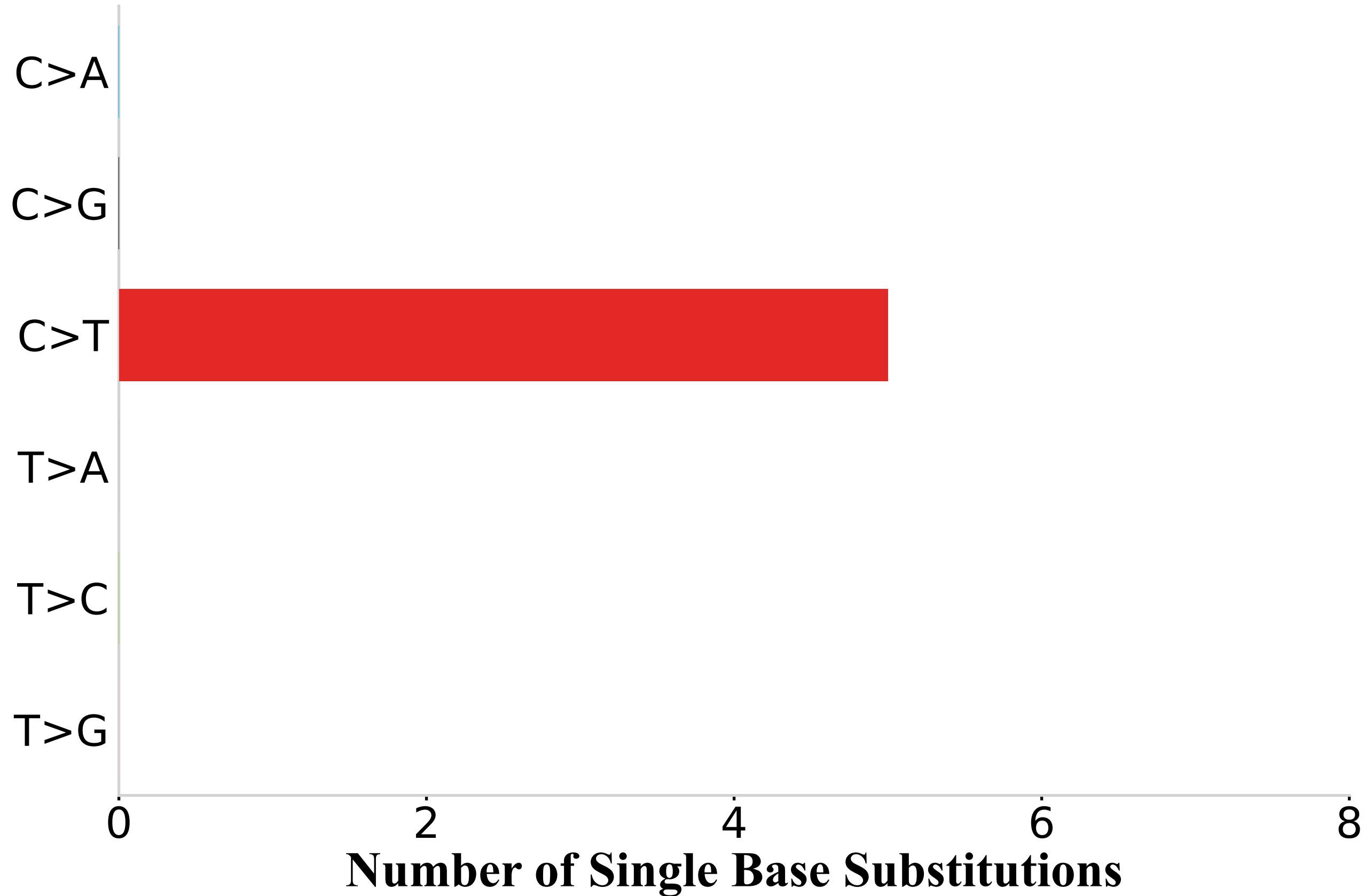
P-0026114-T02-IM6: 4 subs



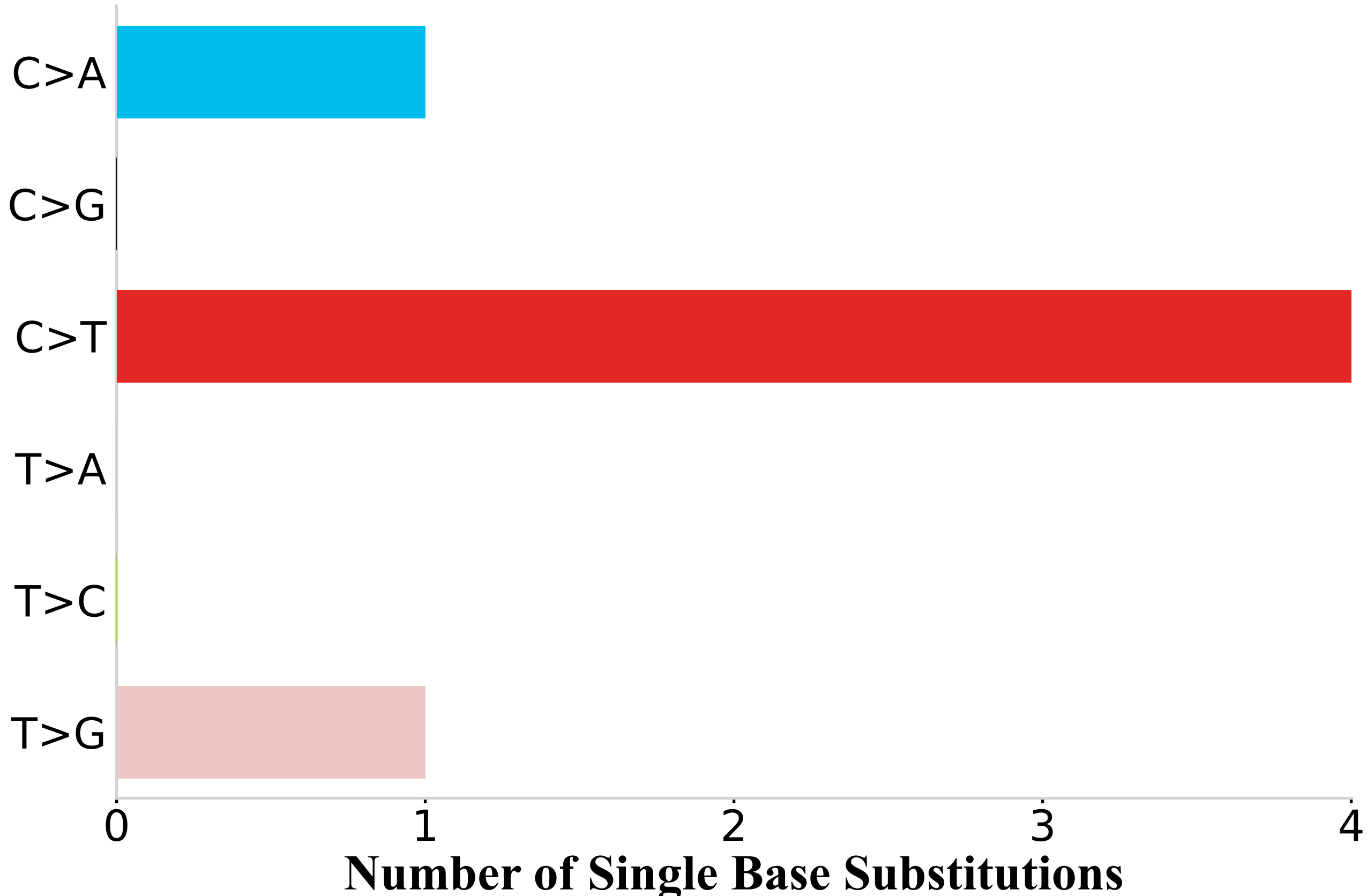
P-0026175-T01-IM6: 7 subs



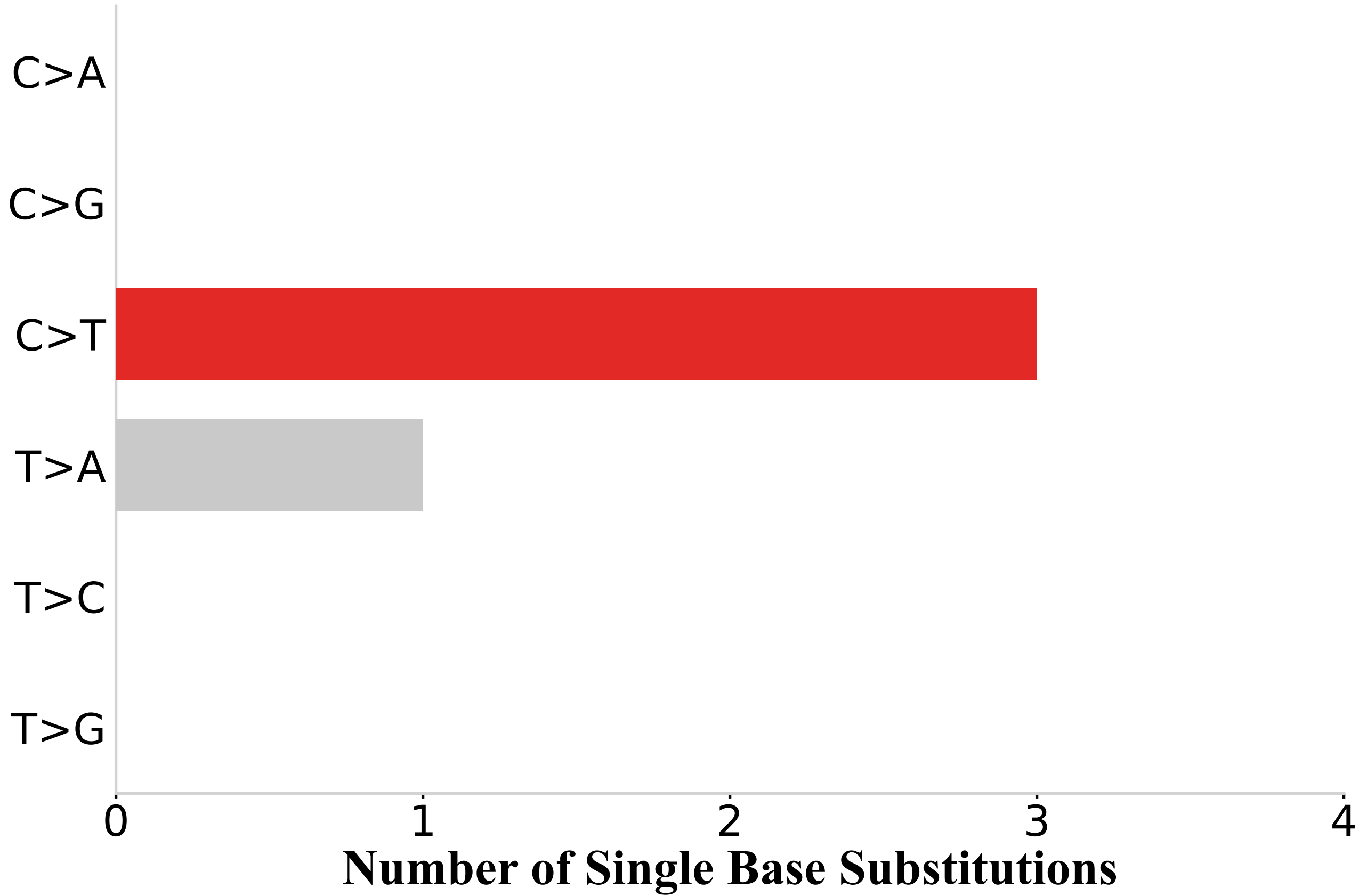
P-0026405-T01-IM6: 5 subs



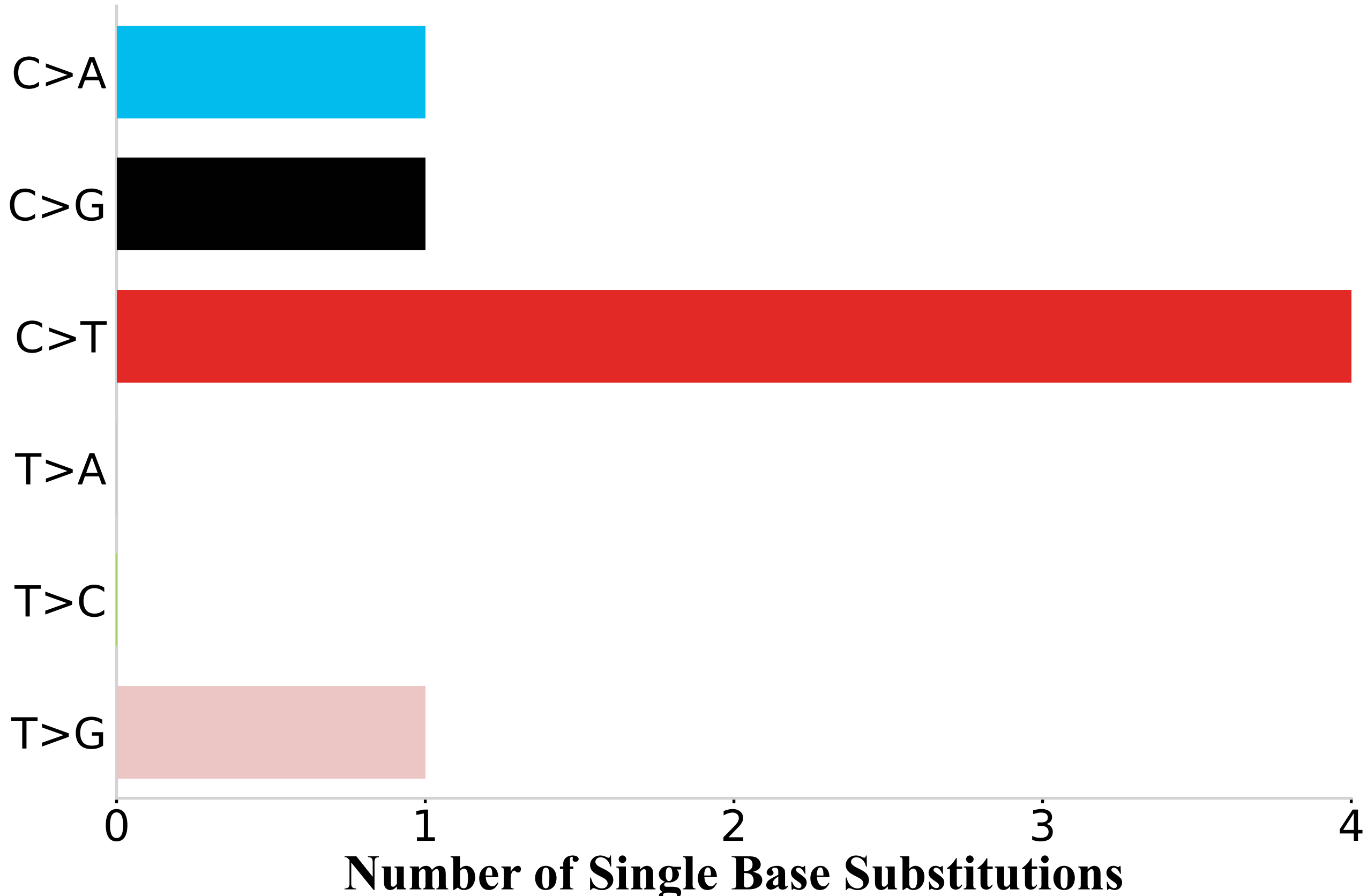
P-0026410-T01-IM6: 6 subs



P-0026611-T01-IM6: 4 subs



P-0026724-T02-IM6: 7 subs



P-0026760-T01-IM6: 4 subs

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C>G

C>T

T>A

T>C

T>G

0

1

2

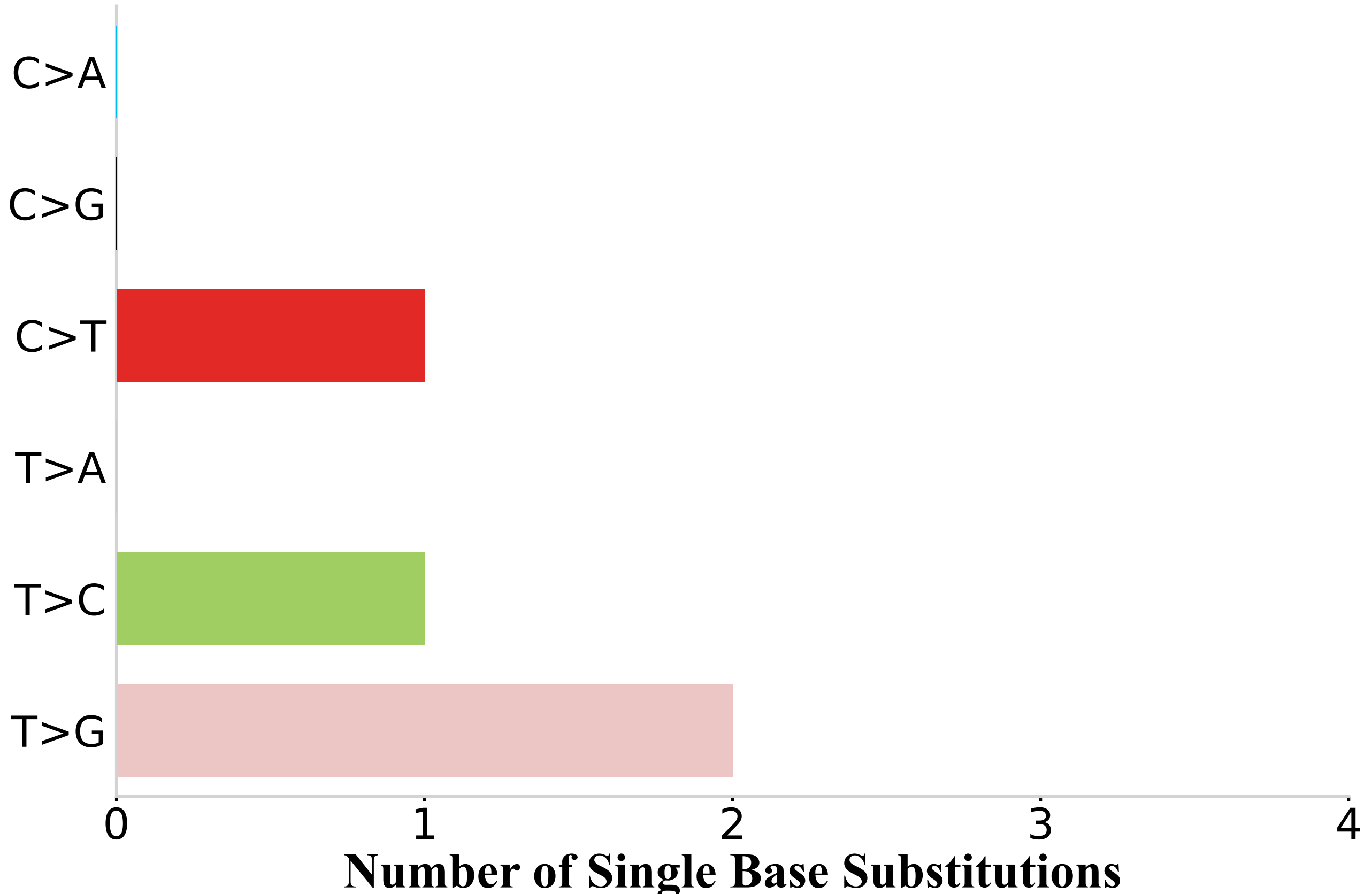
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4

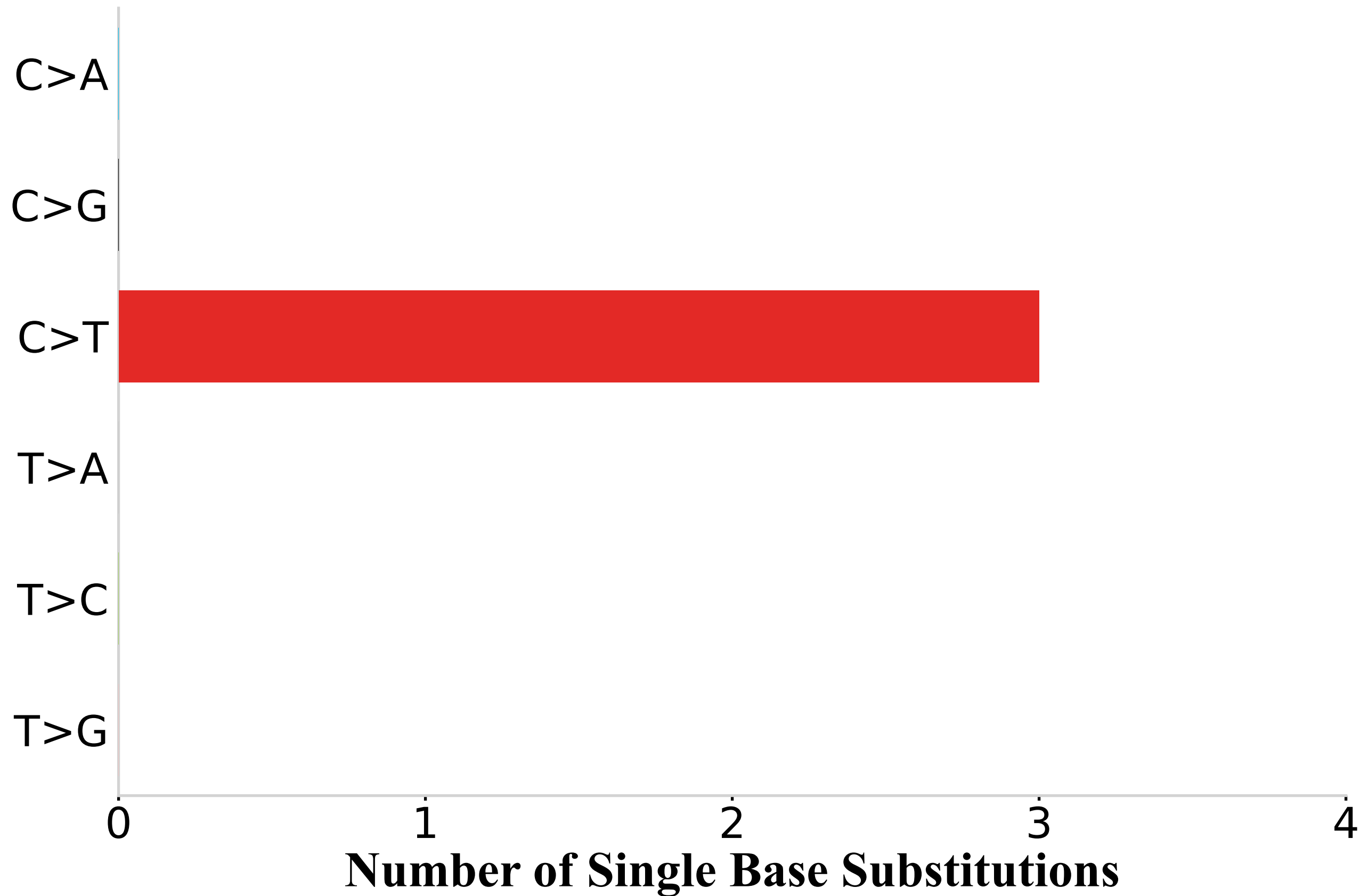
Number of Single Base Substitutions



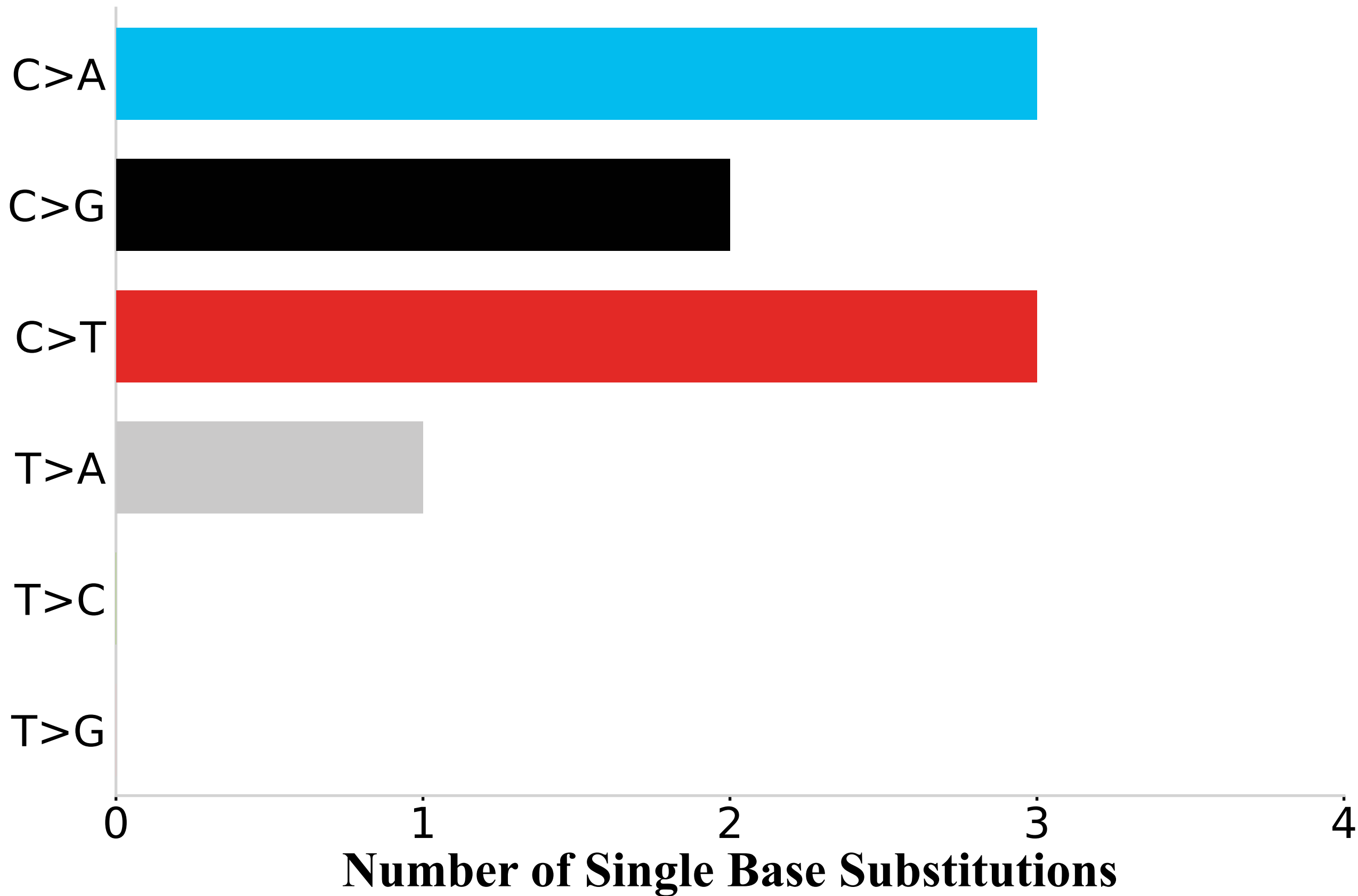
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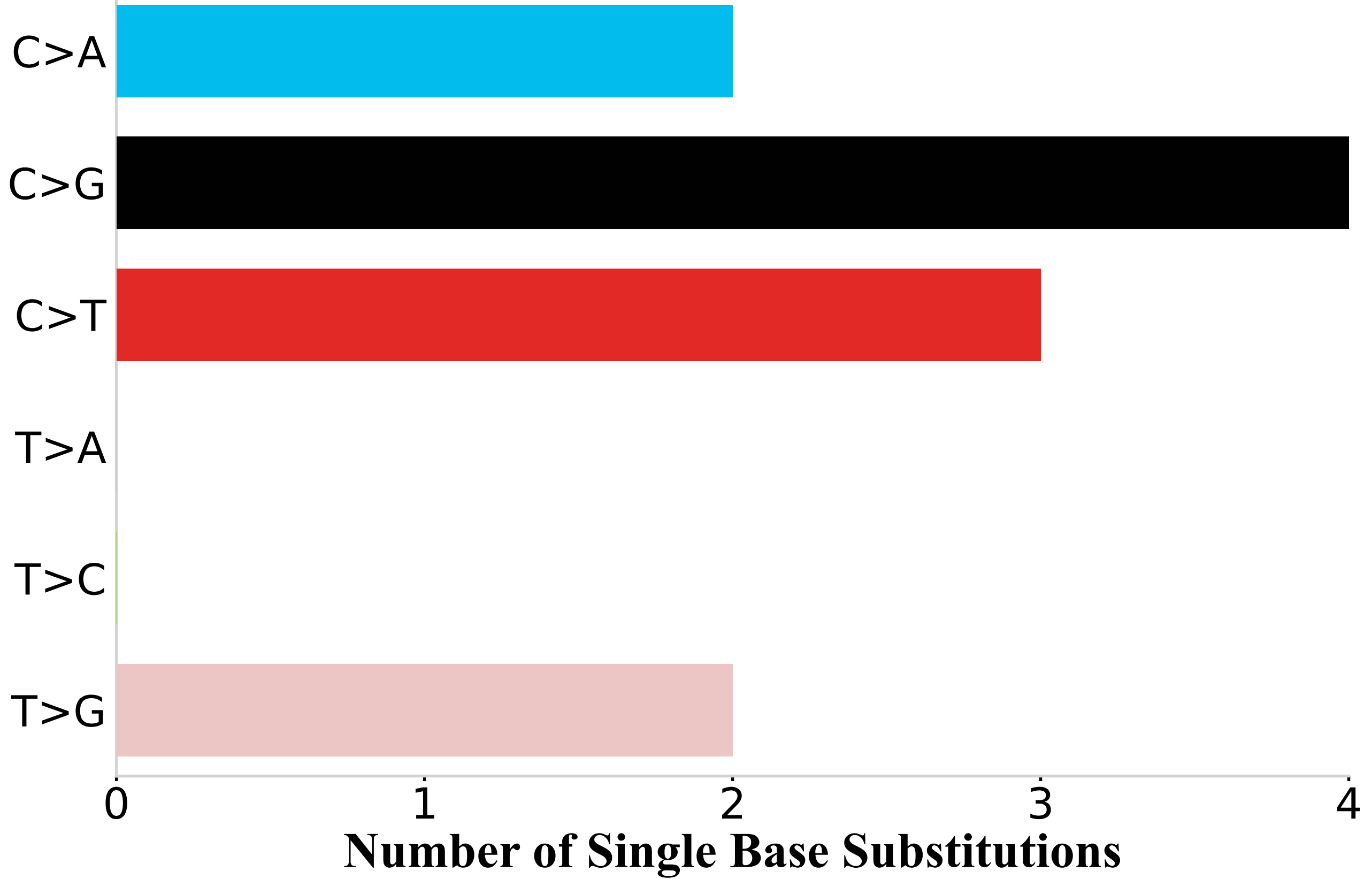
P-0026909-T01-IM6: 3 subs



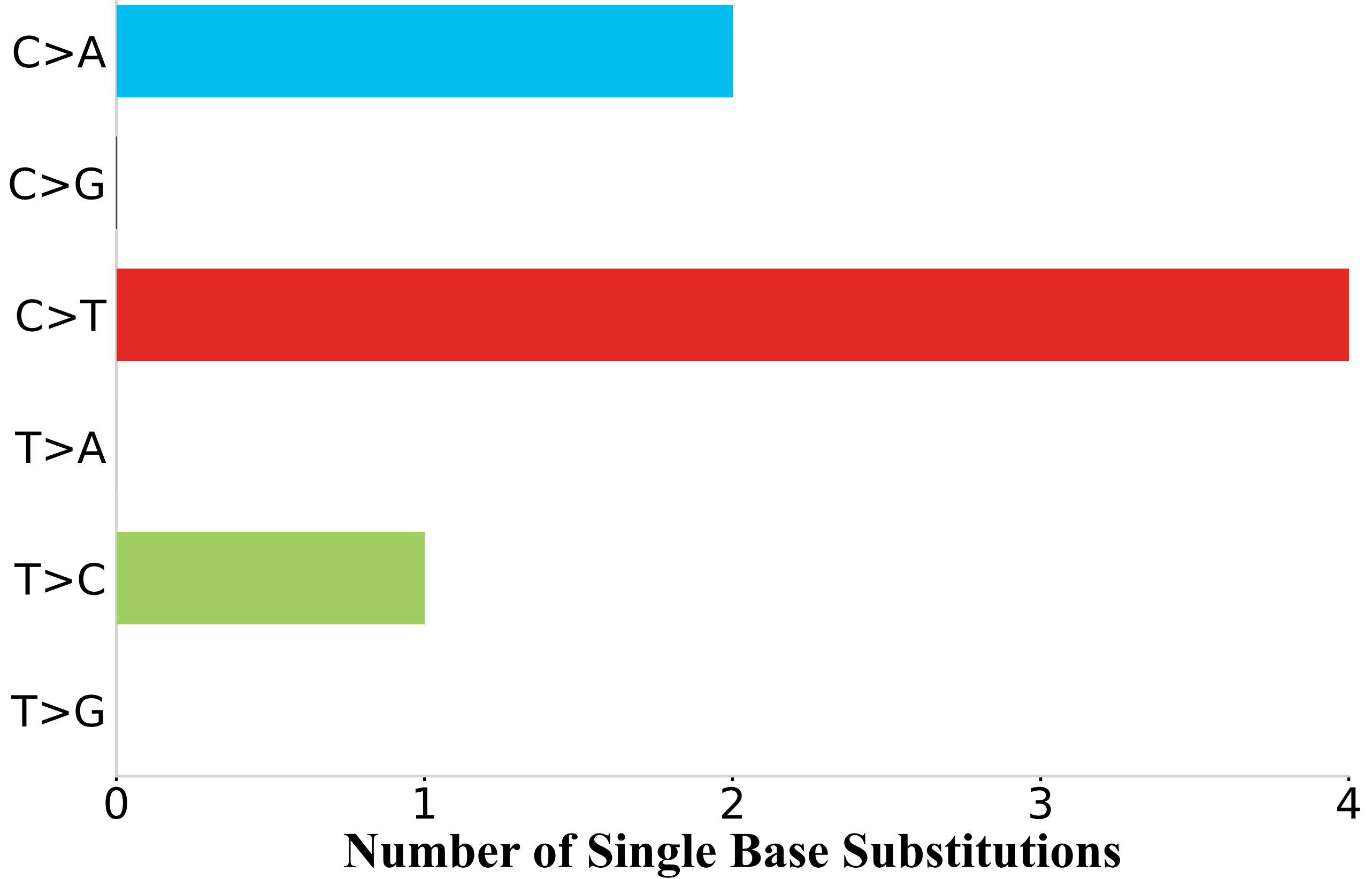
P-0027025-T03-IM6: 9 subs



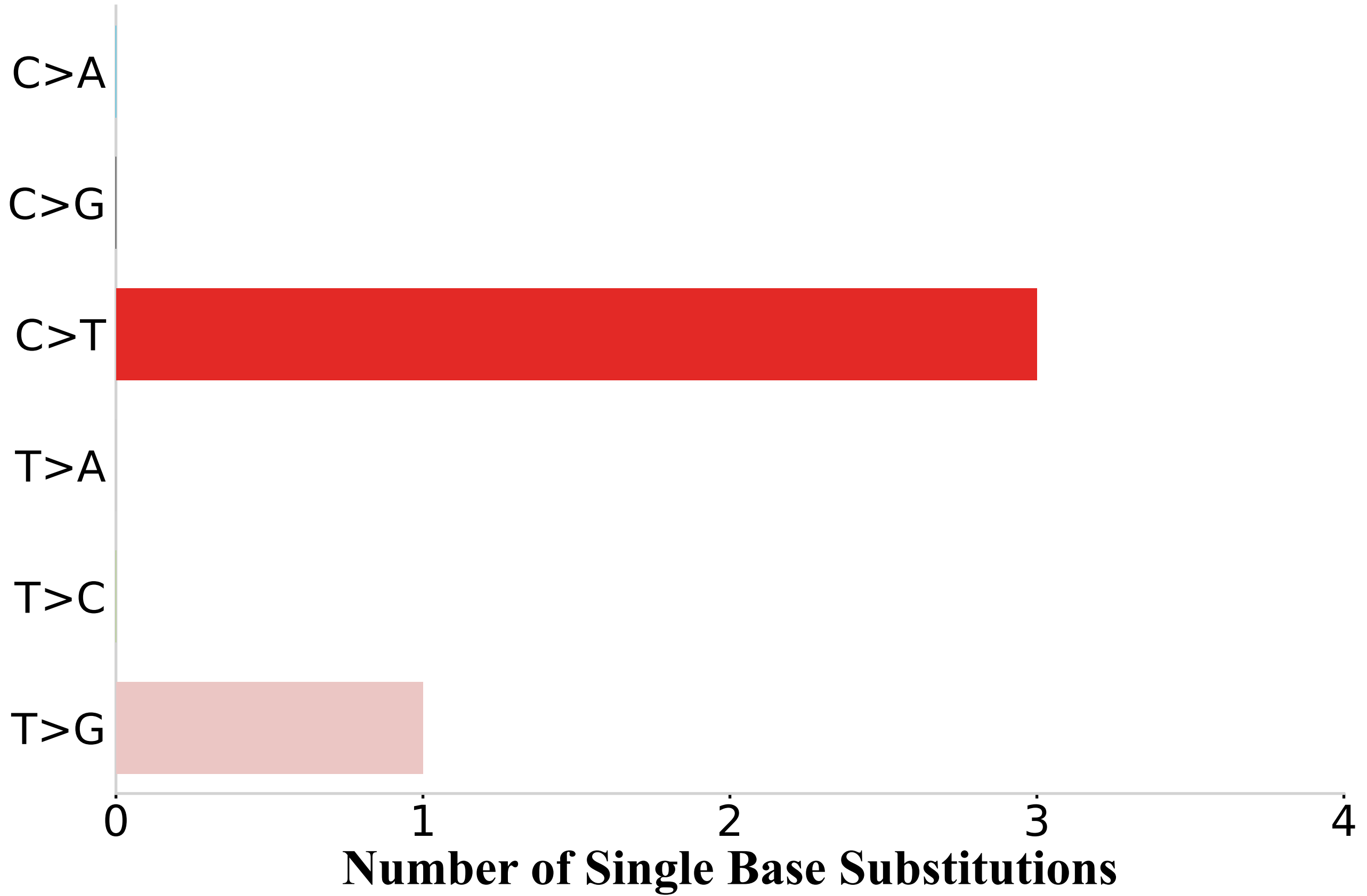
P-0027124-T01-IM6: 11 subs



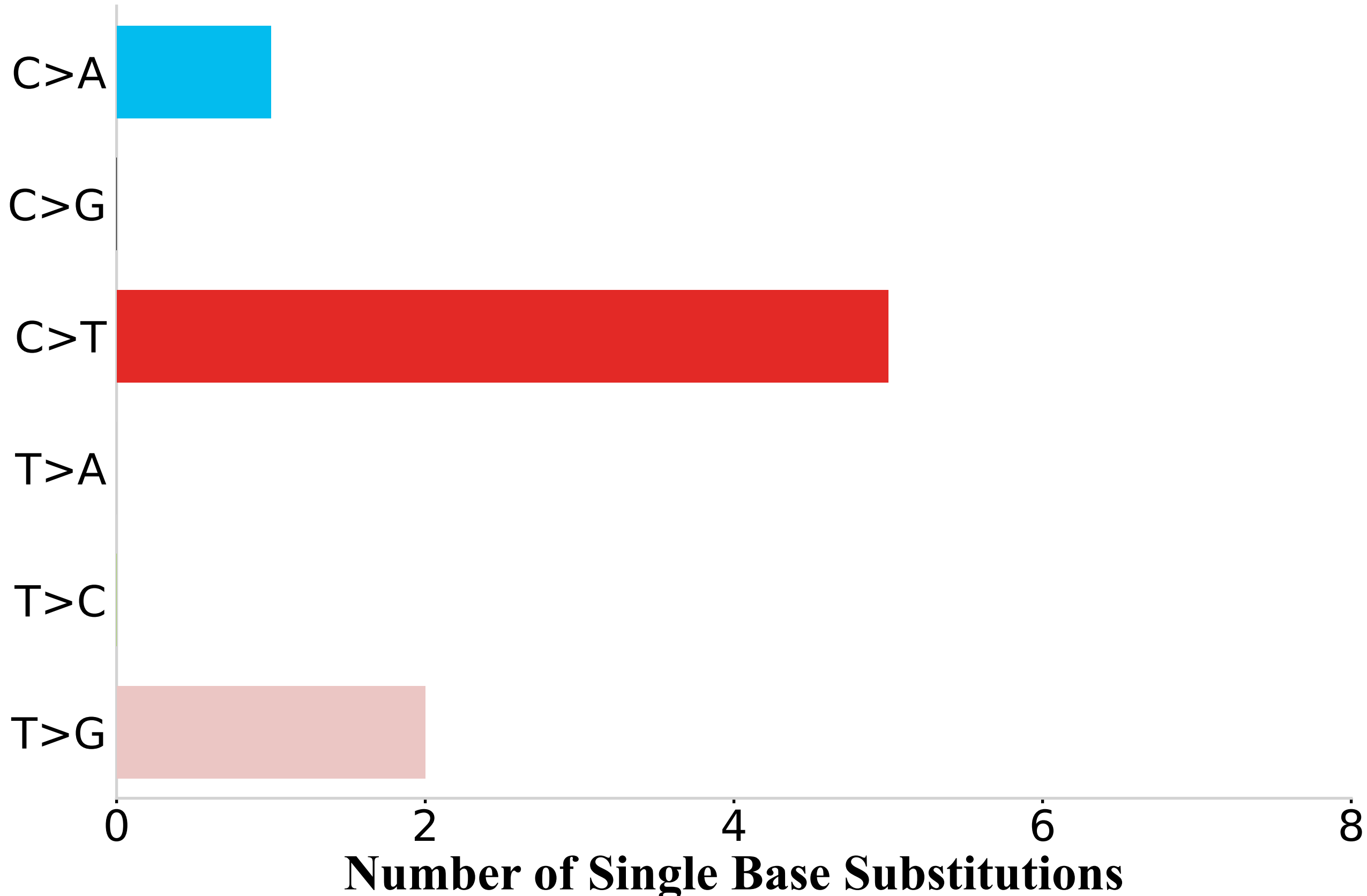
P-0027130-T01-IM6: 7 subs



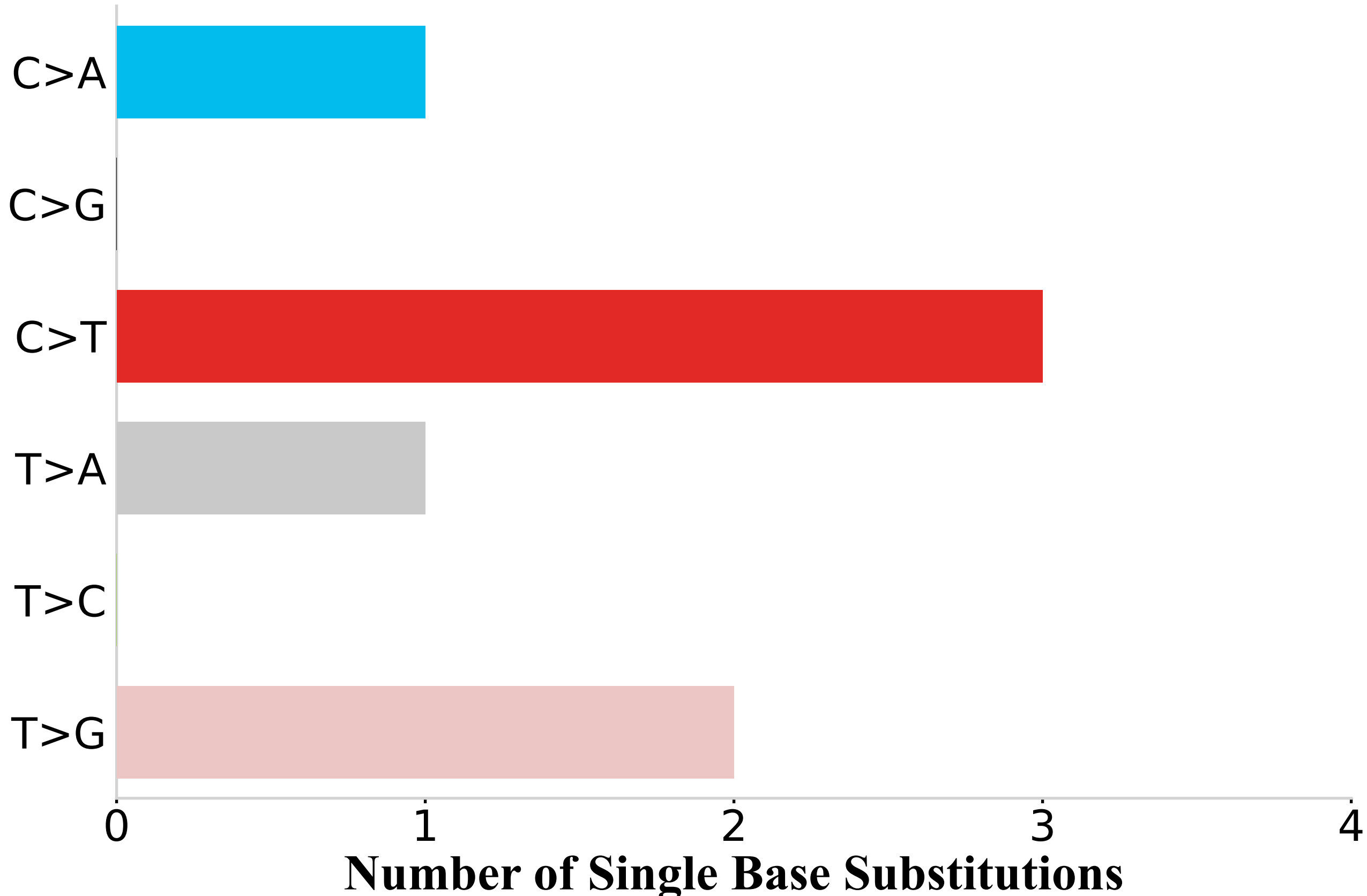
P-0027141-T01-IM6: 4 subs



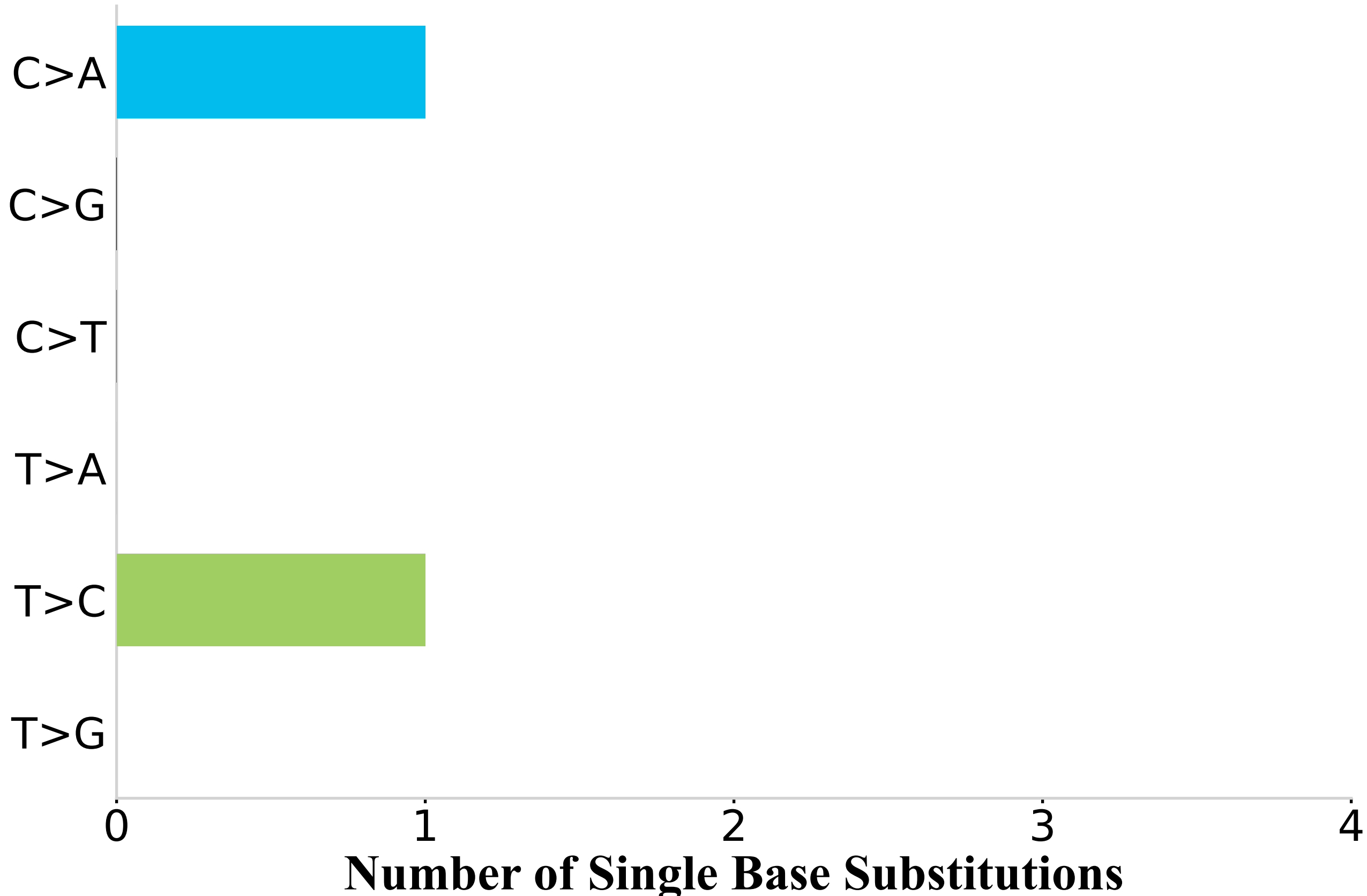
P-0027240-T01-IM6: 8 subs



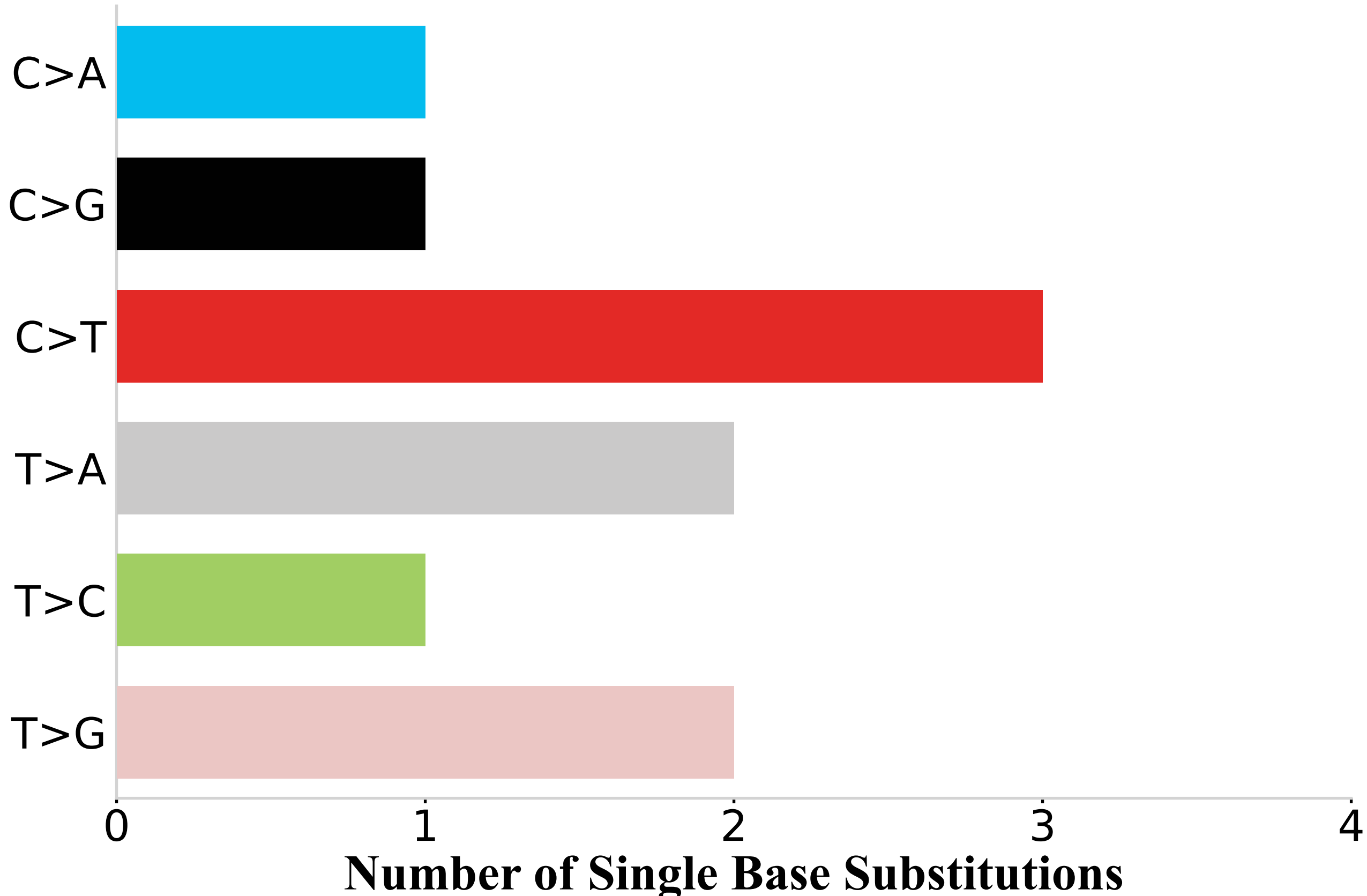
P-0027254-T01-IM6: 7 subs



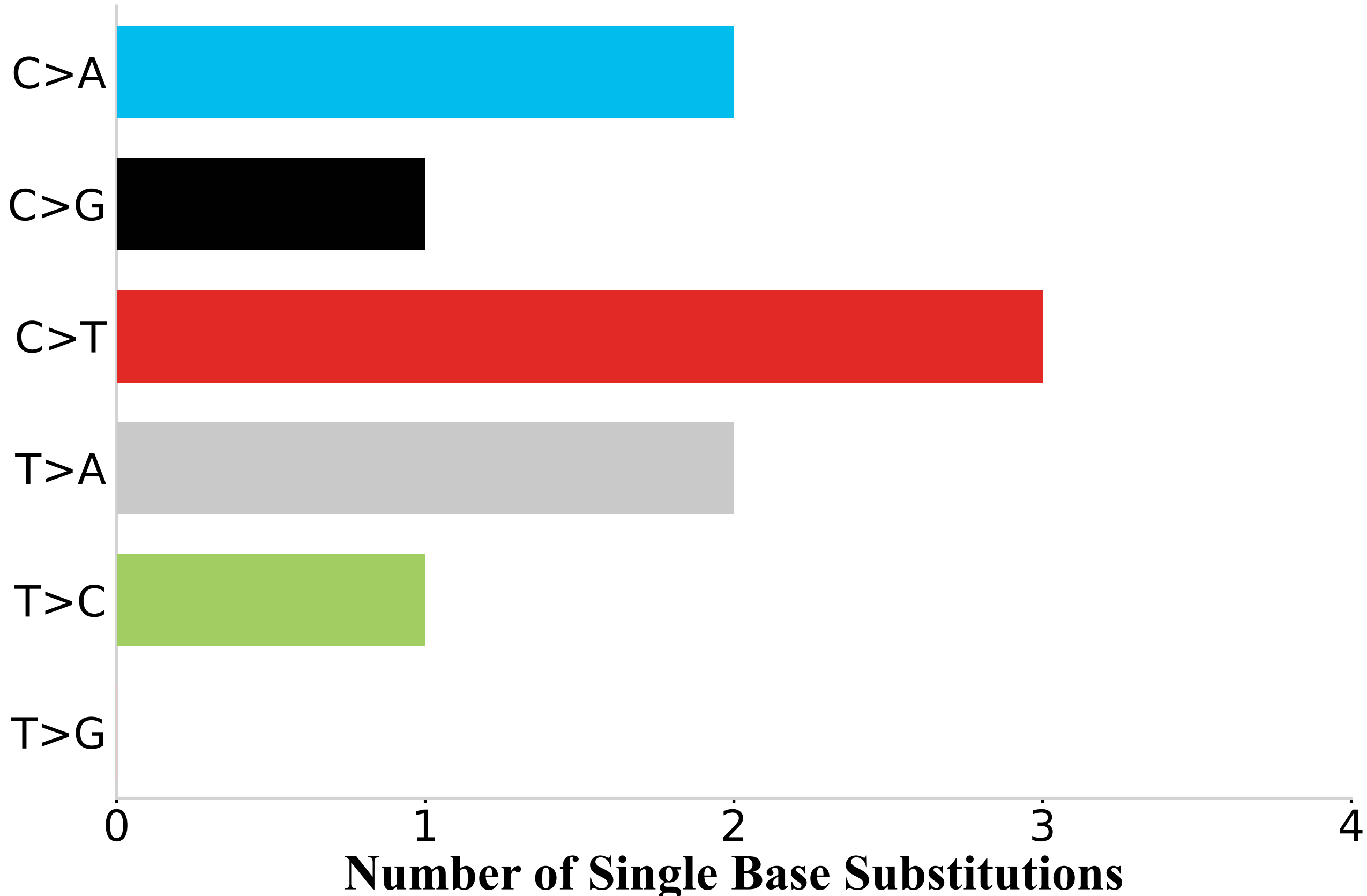
P-0027267-T01-IM6: 2 subs



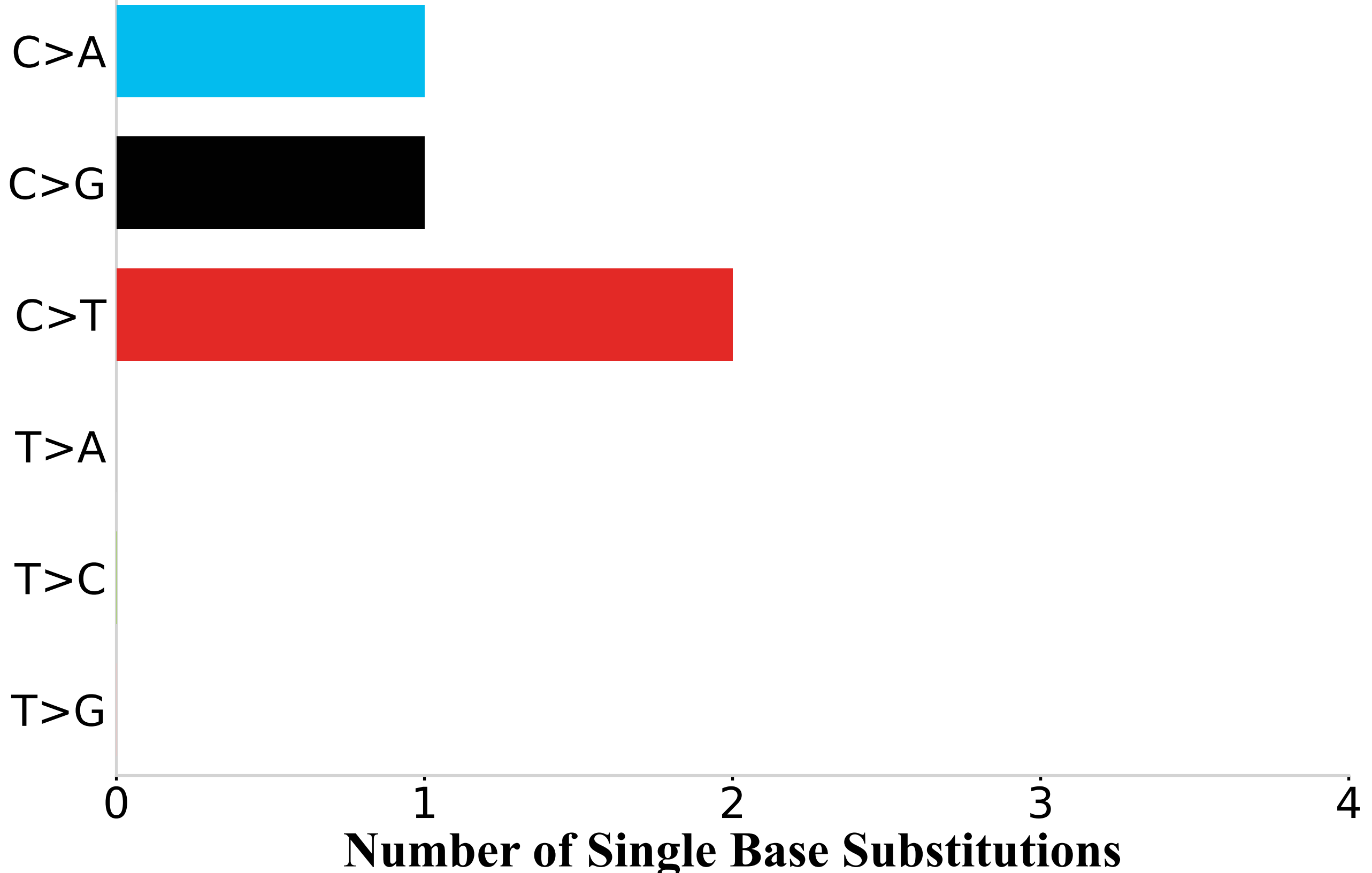
P-0027269-T01-IM6: 10 subs



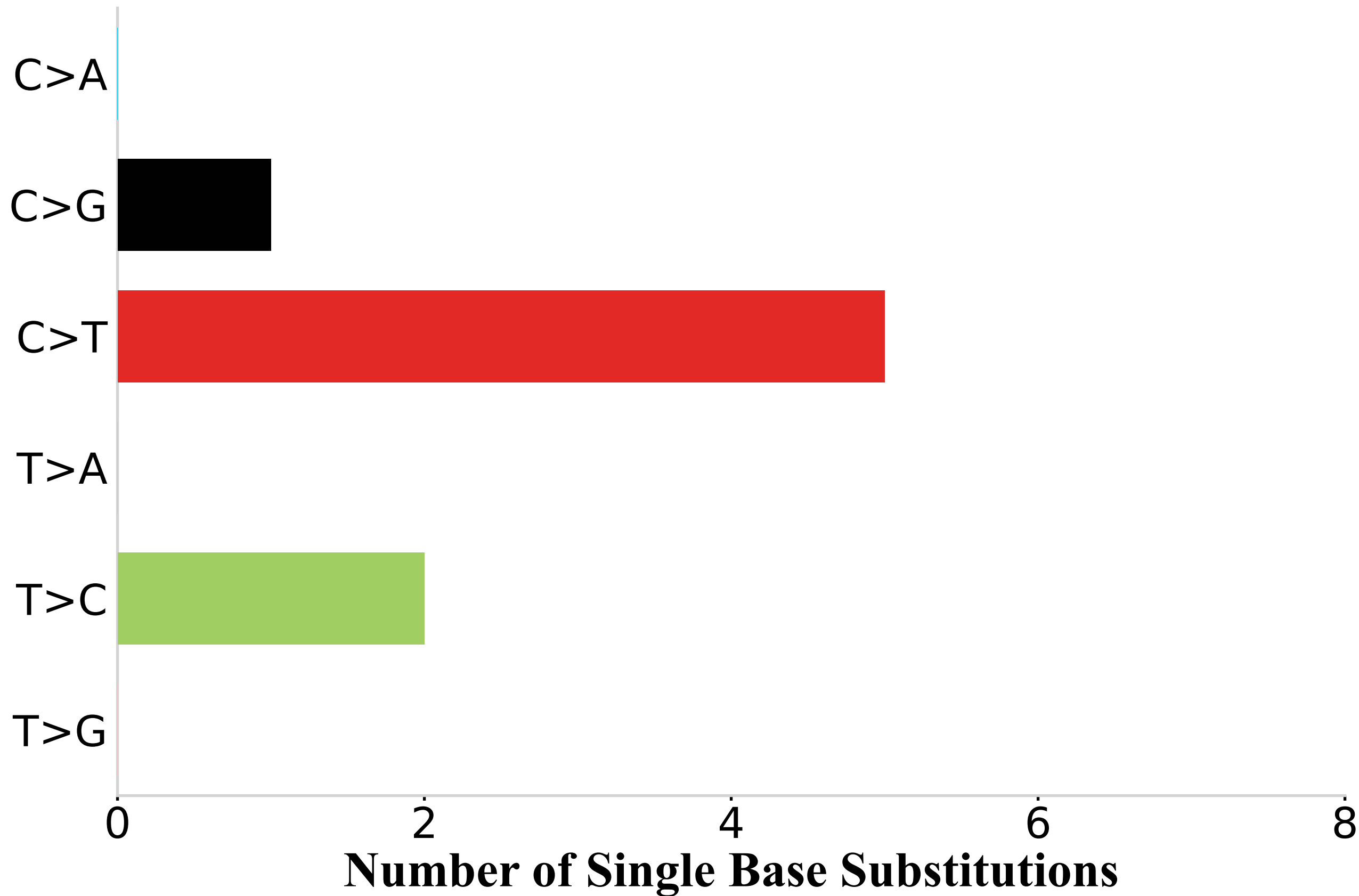
P-0027359-T01-IM6: 9 subs



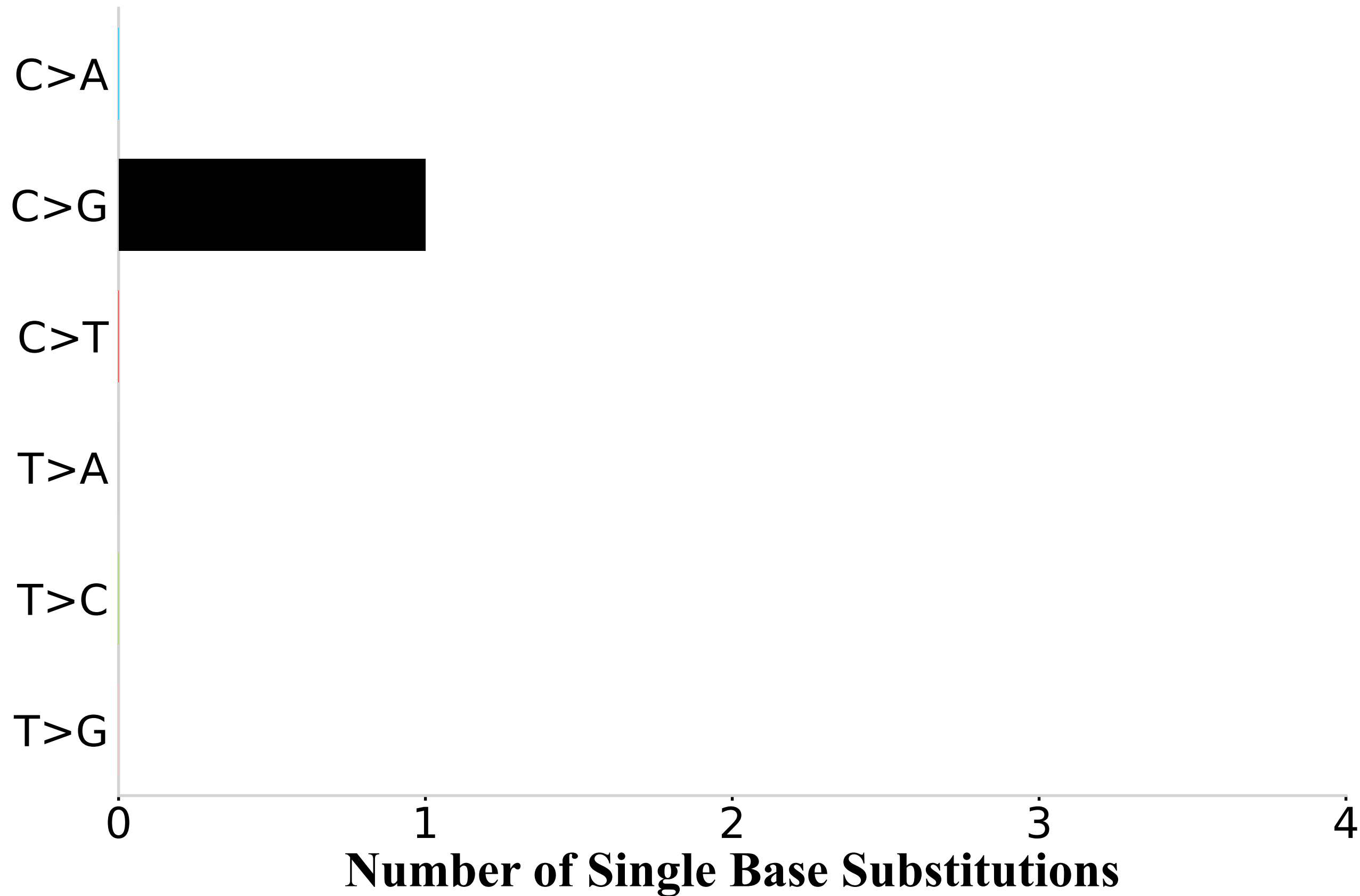
P-0027417-T01-IM6: 4 subs



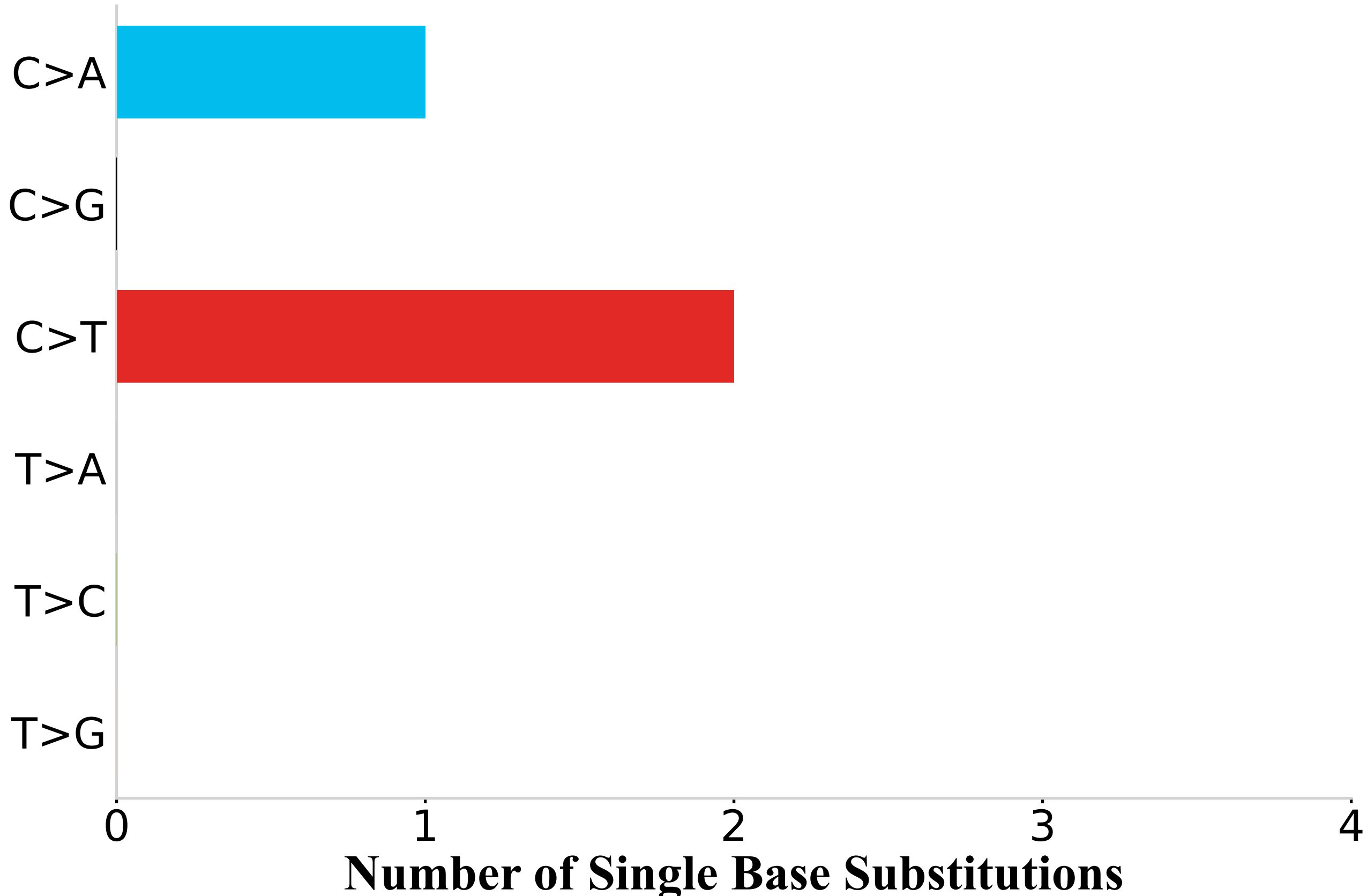
P-0027658-T01-IM6: 8 subs



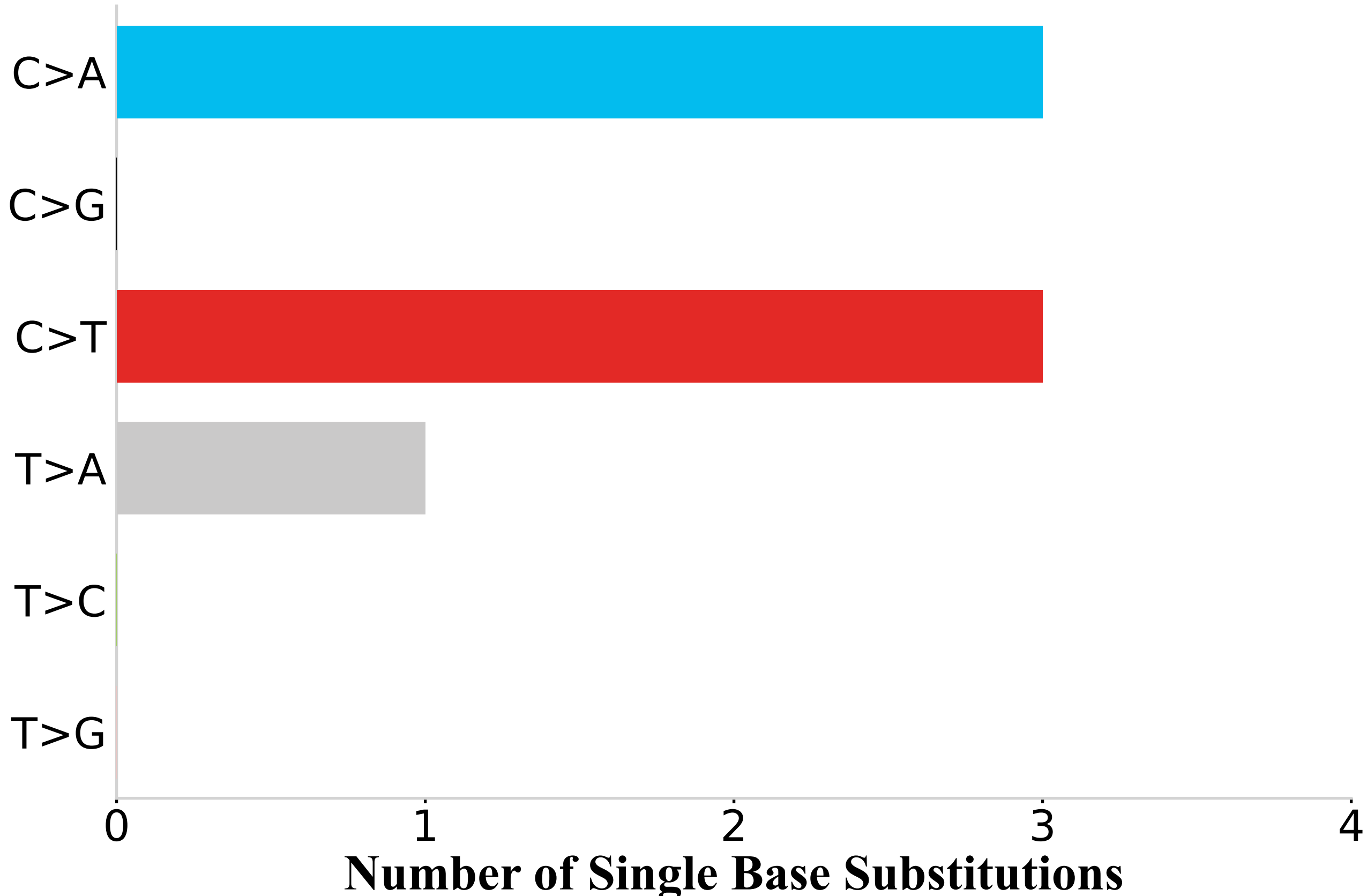
P-0027661-T01-IM6: 1 subs



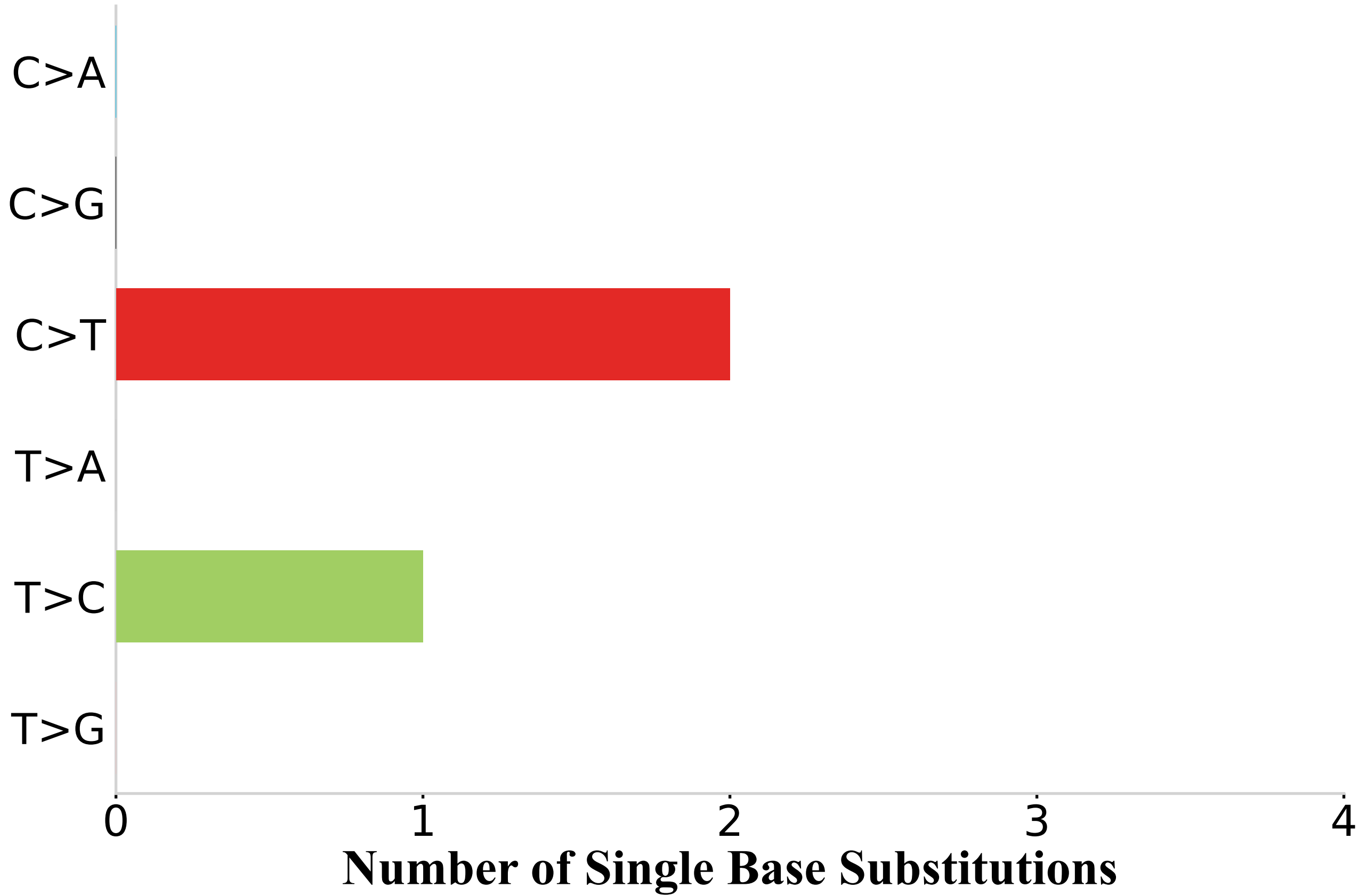
P-0027686-T01-IM6: 3 subs



P-0027743-T01-IM6: 7 subs



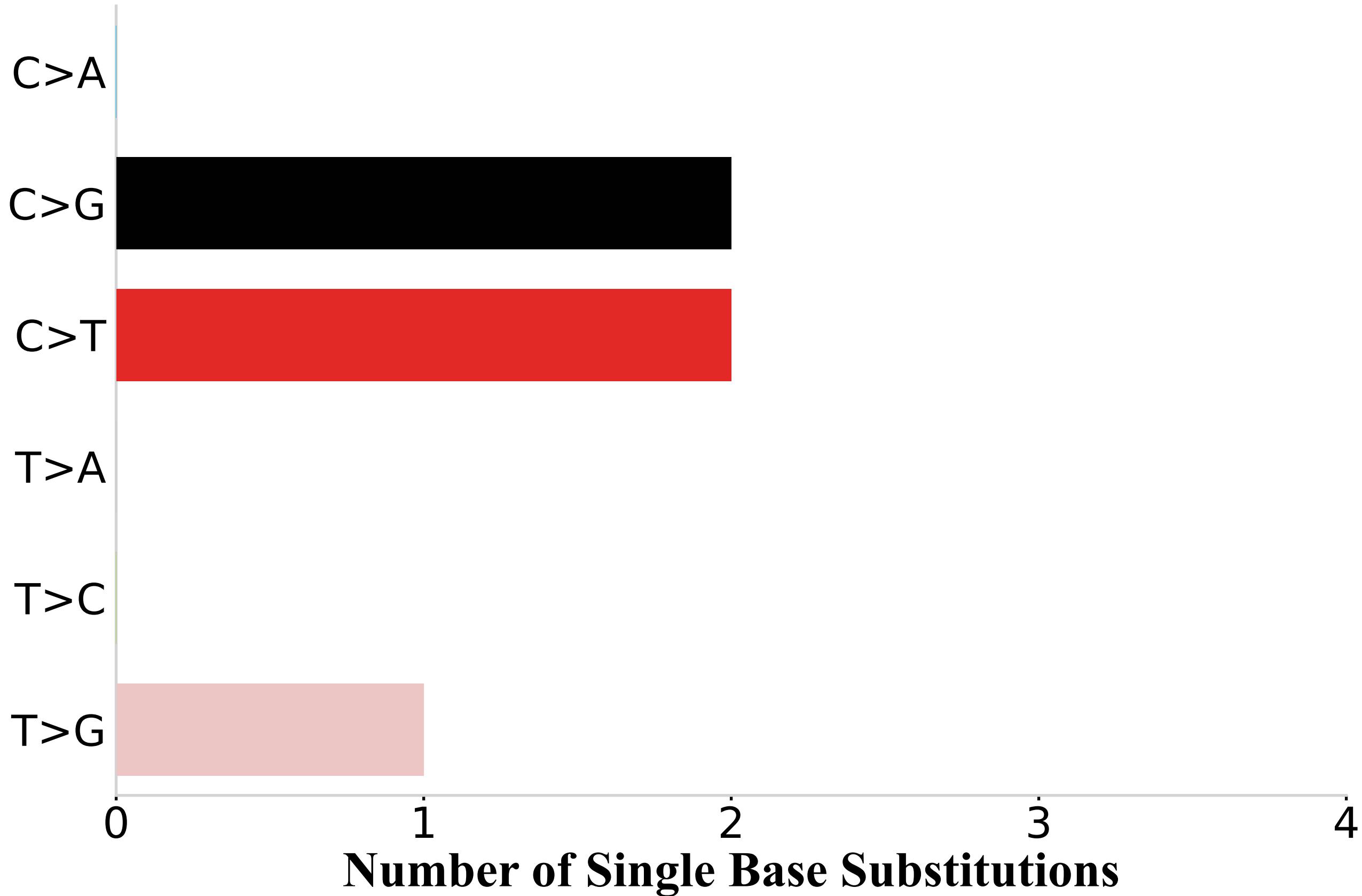
P-0027754-T02-IM6: 3 subs



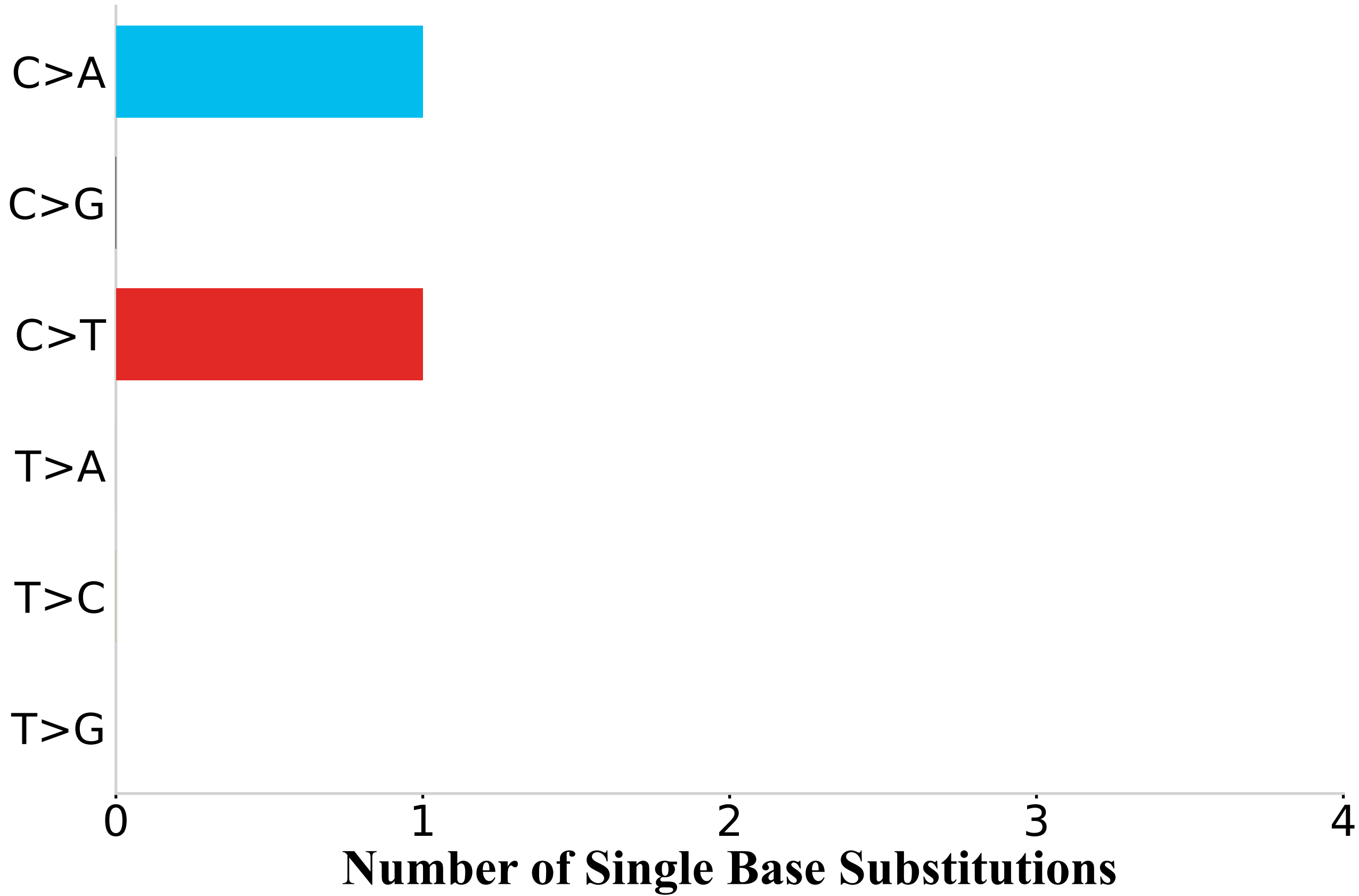
P-0027757-T01-IM6: 1 subs



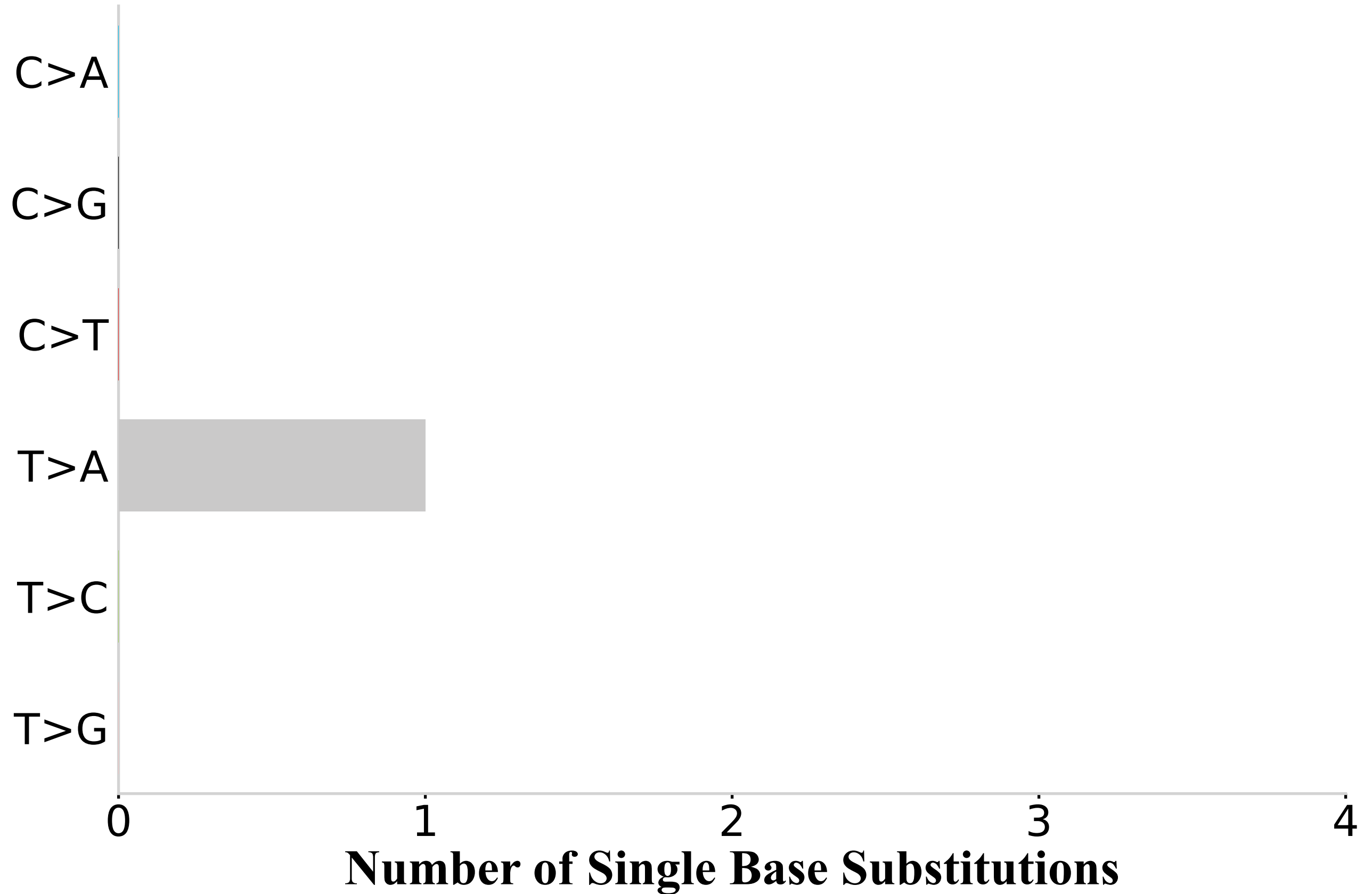
P-0027869-T01-IM6: 5 subs



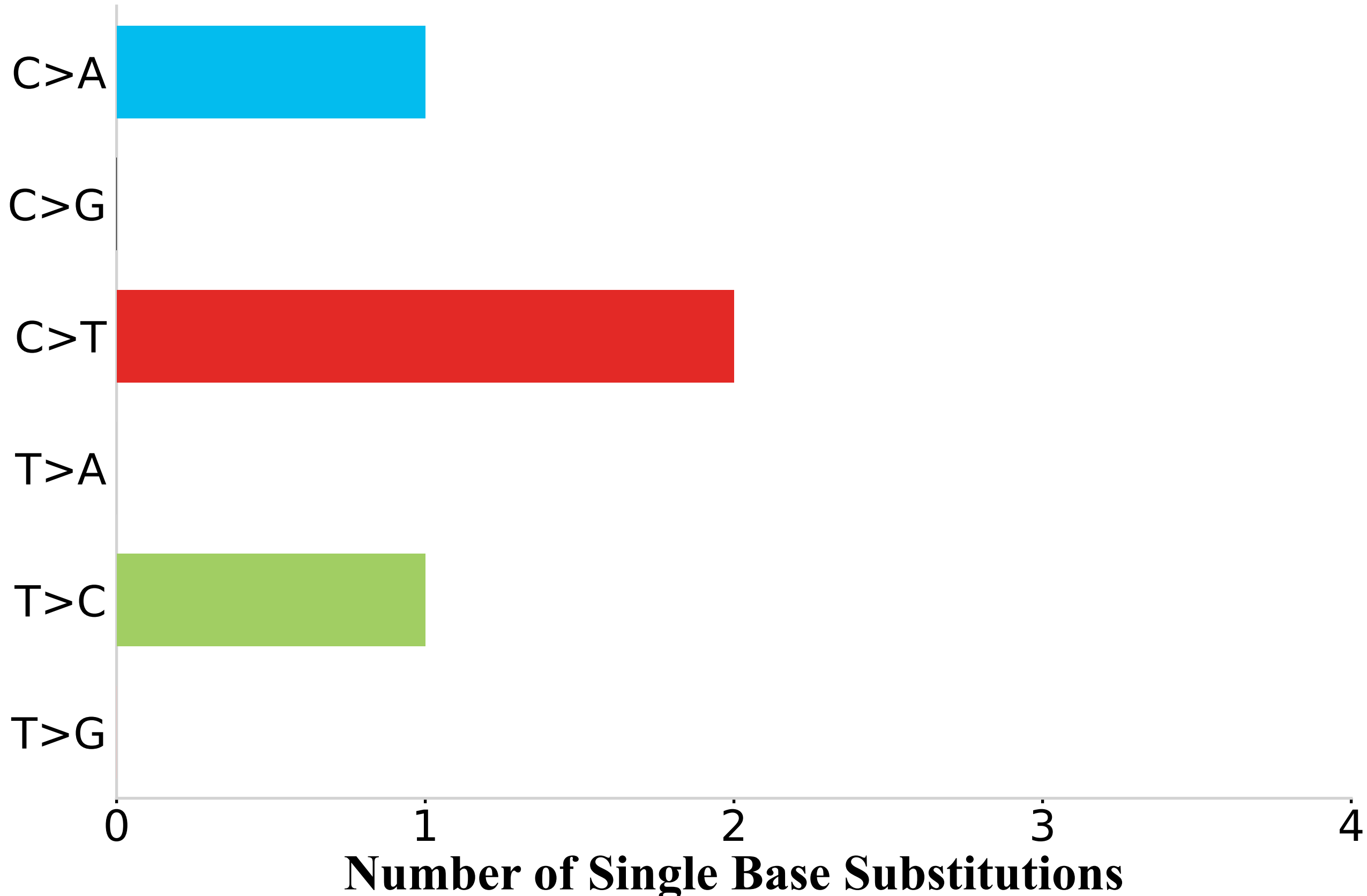
P-0027939-T01-IM6: 2 subs



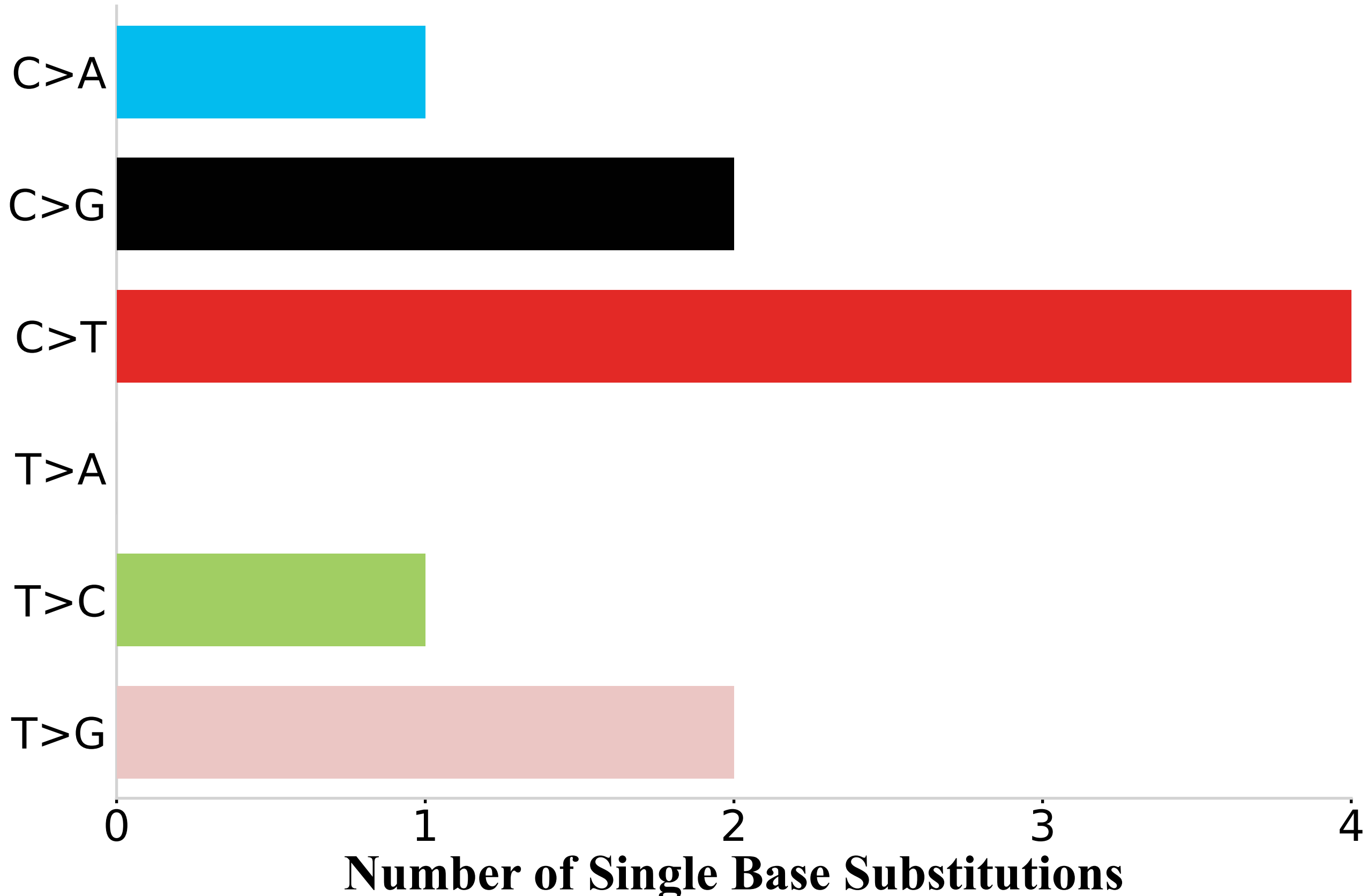
P-0028007-T01-IM6: 1 subs



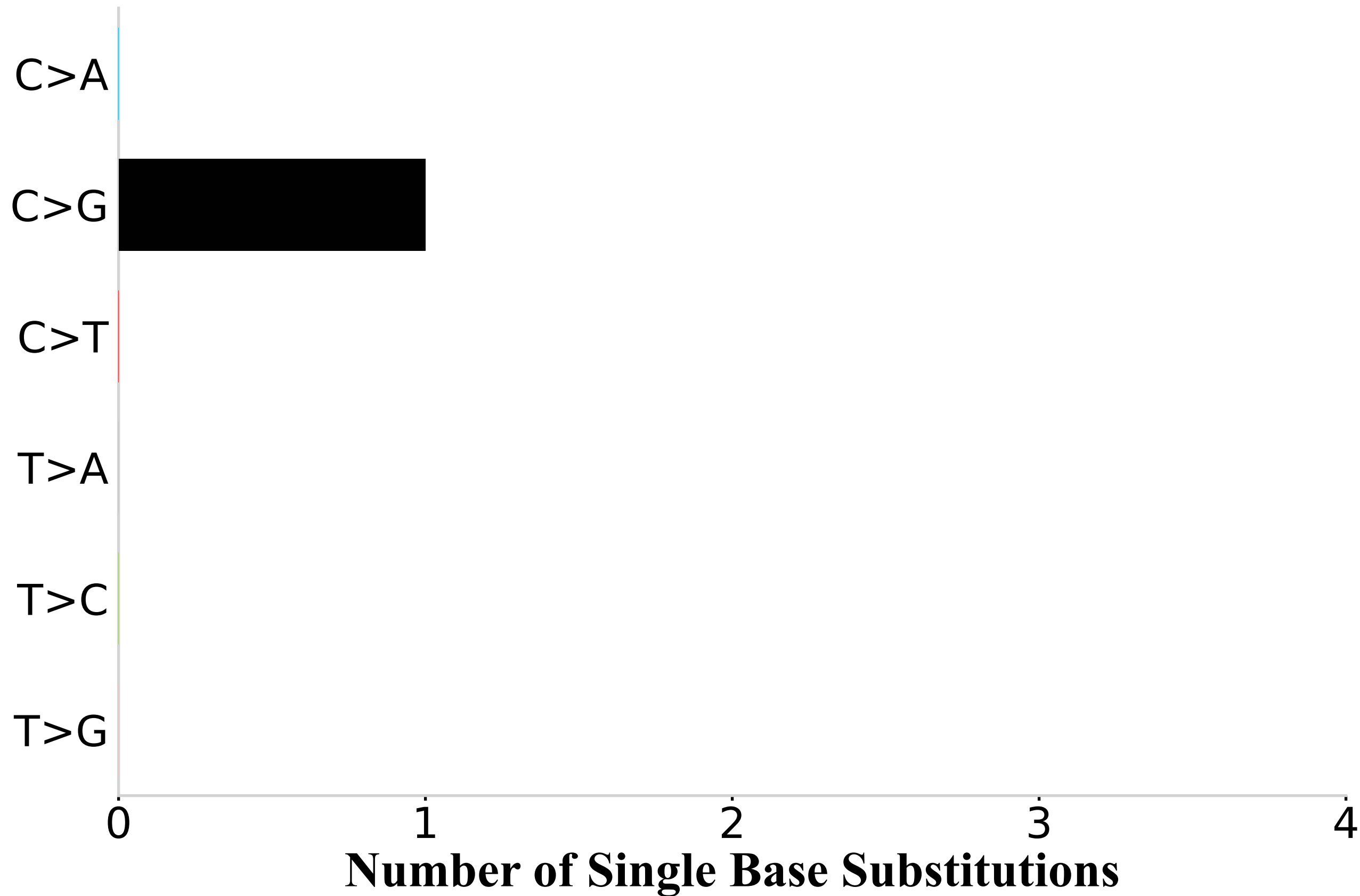
P-0028093-T01-IM6: 4 subs



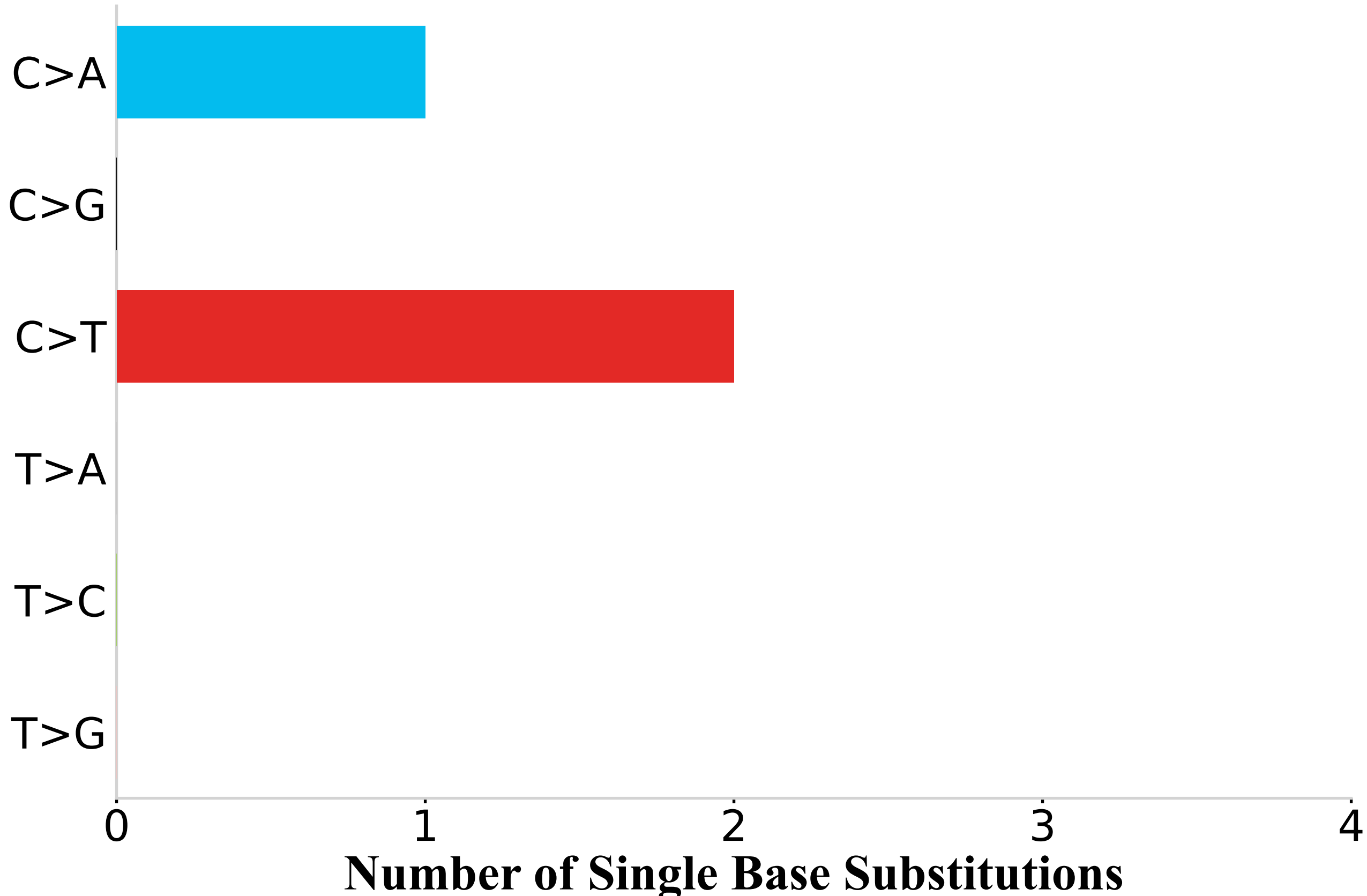
P-0028108-T02-IM6: 10 subs



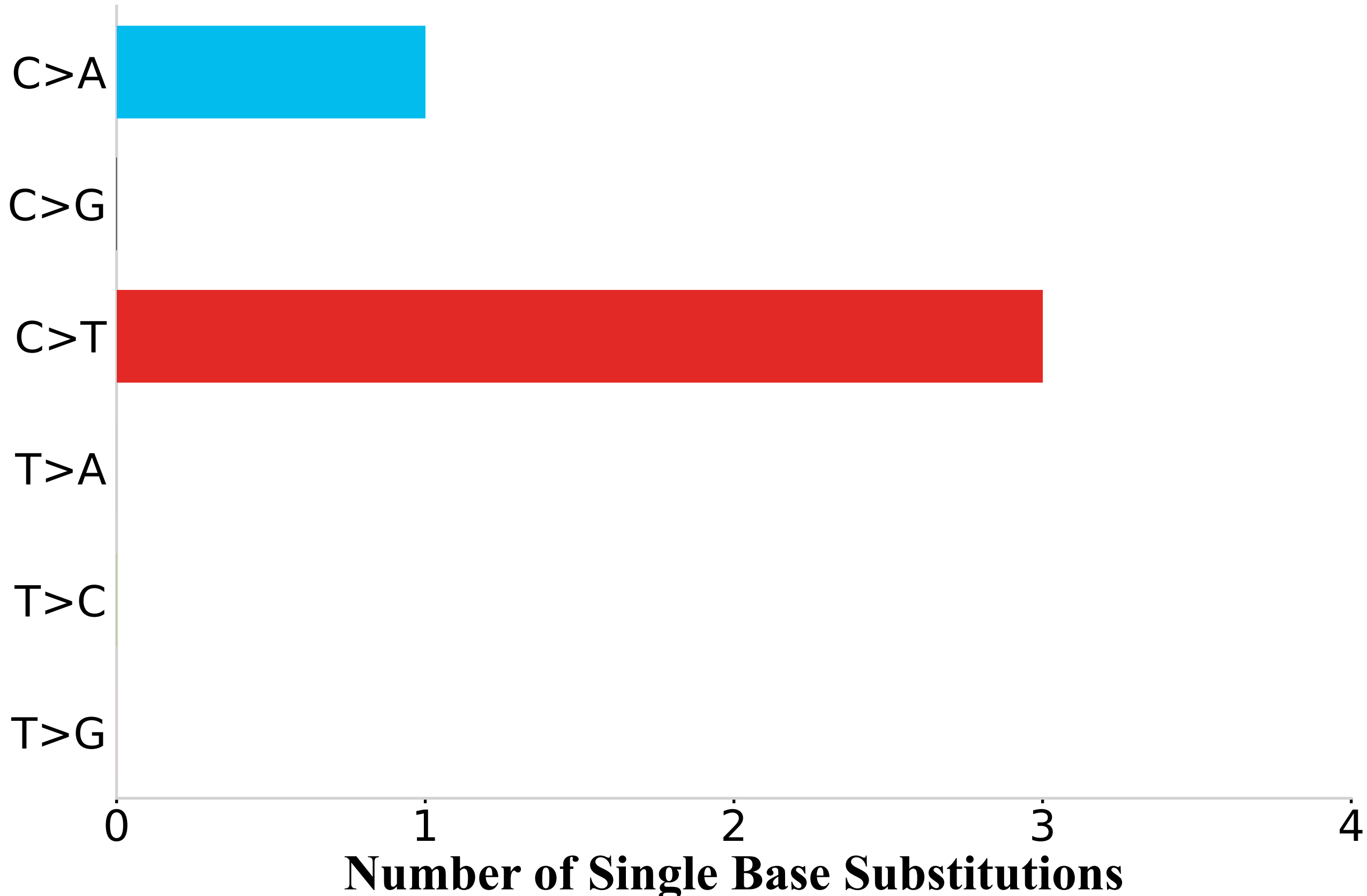
P-0028387-T01-IM6: 1 subs



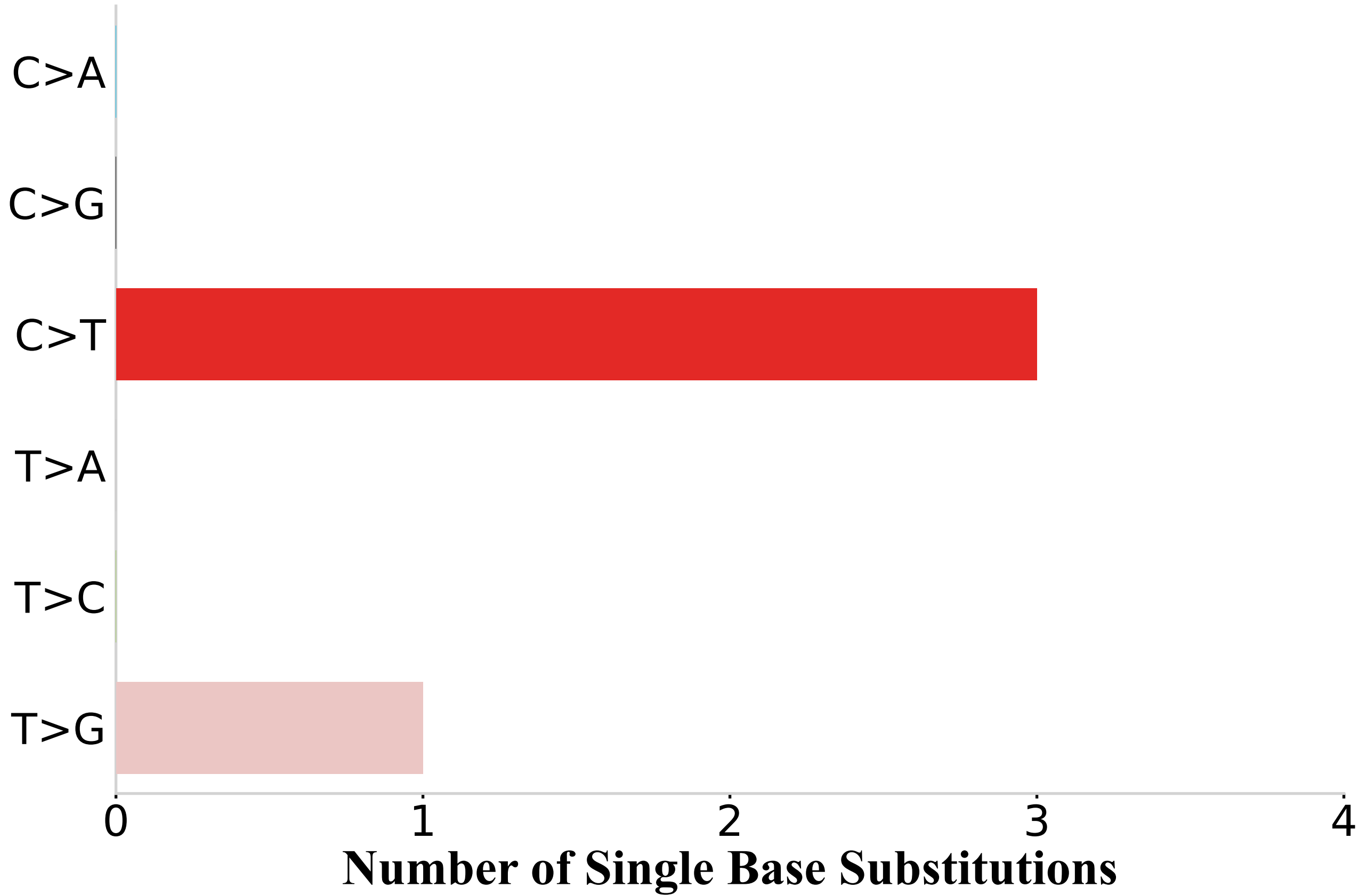
P-0028491-T01-IM6: 3 subs



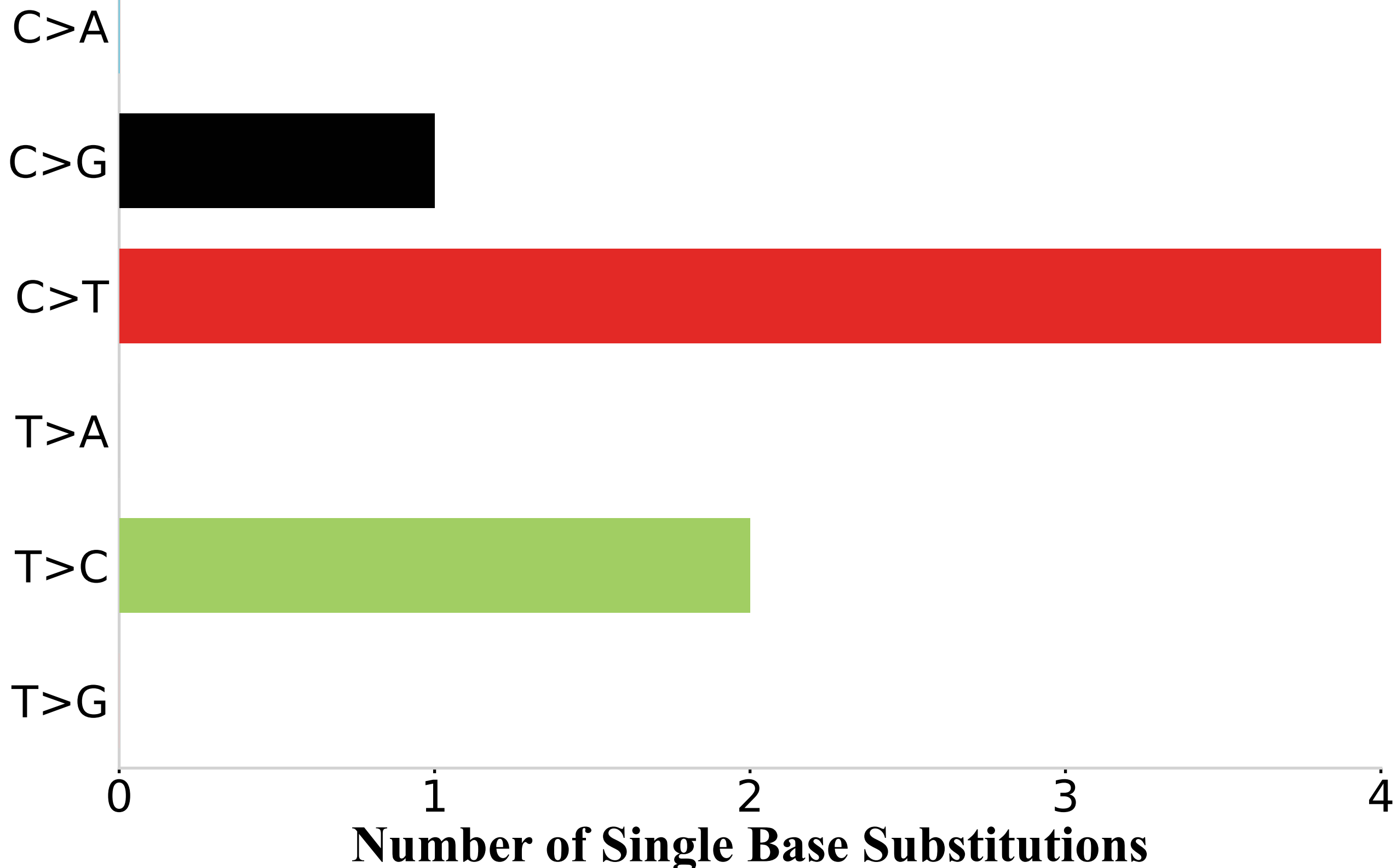
P-0028909-T01-IM6: 4 subs



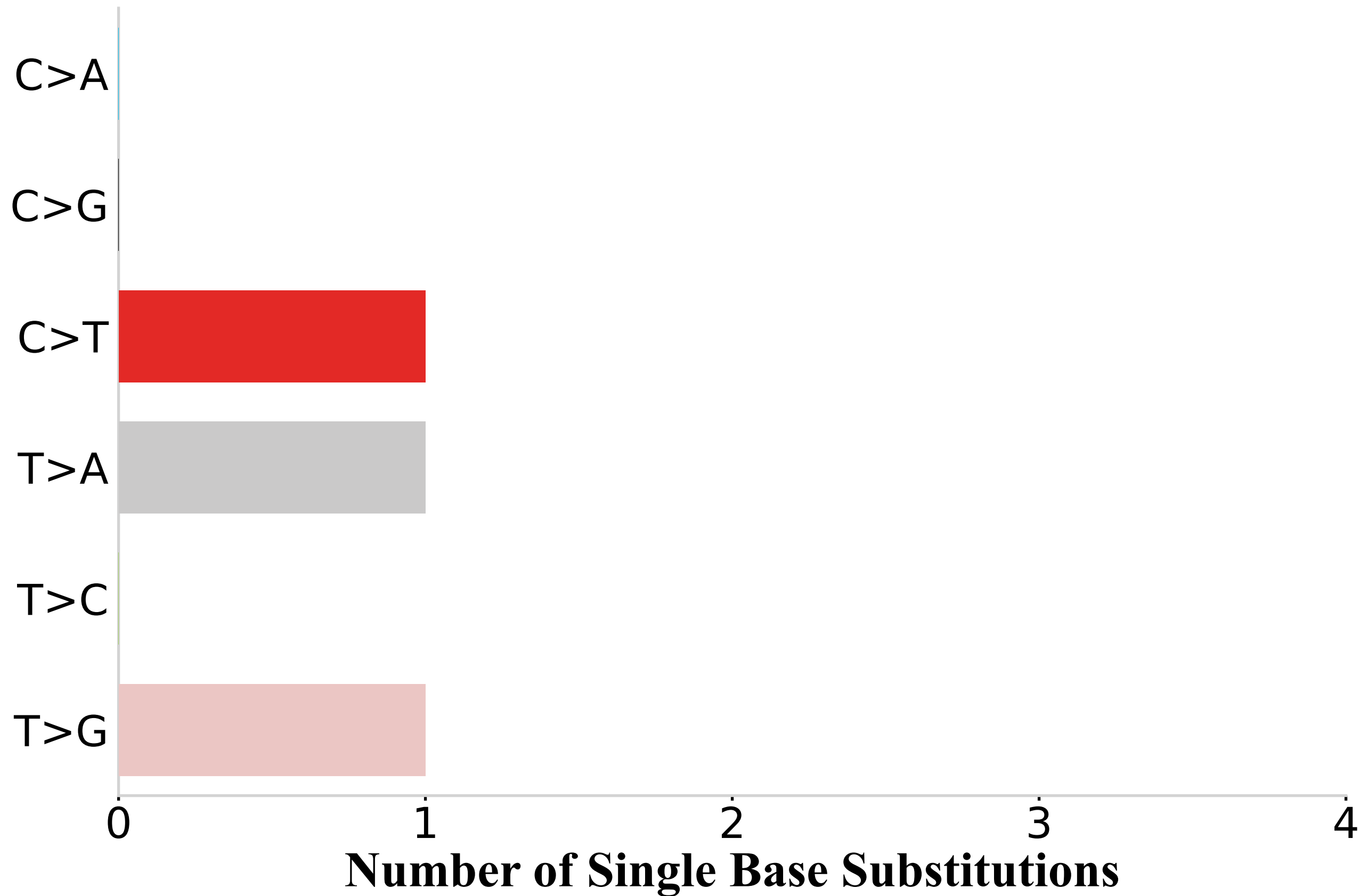
P-0028918-T01-IM6: 4 subs



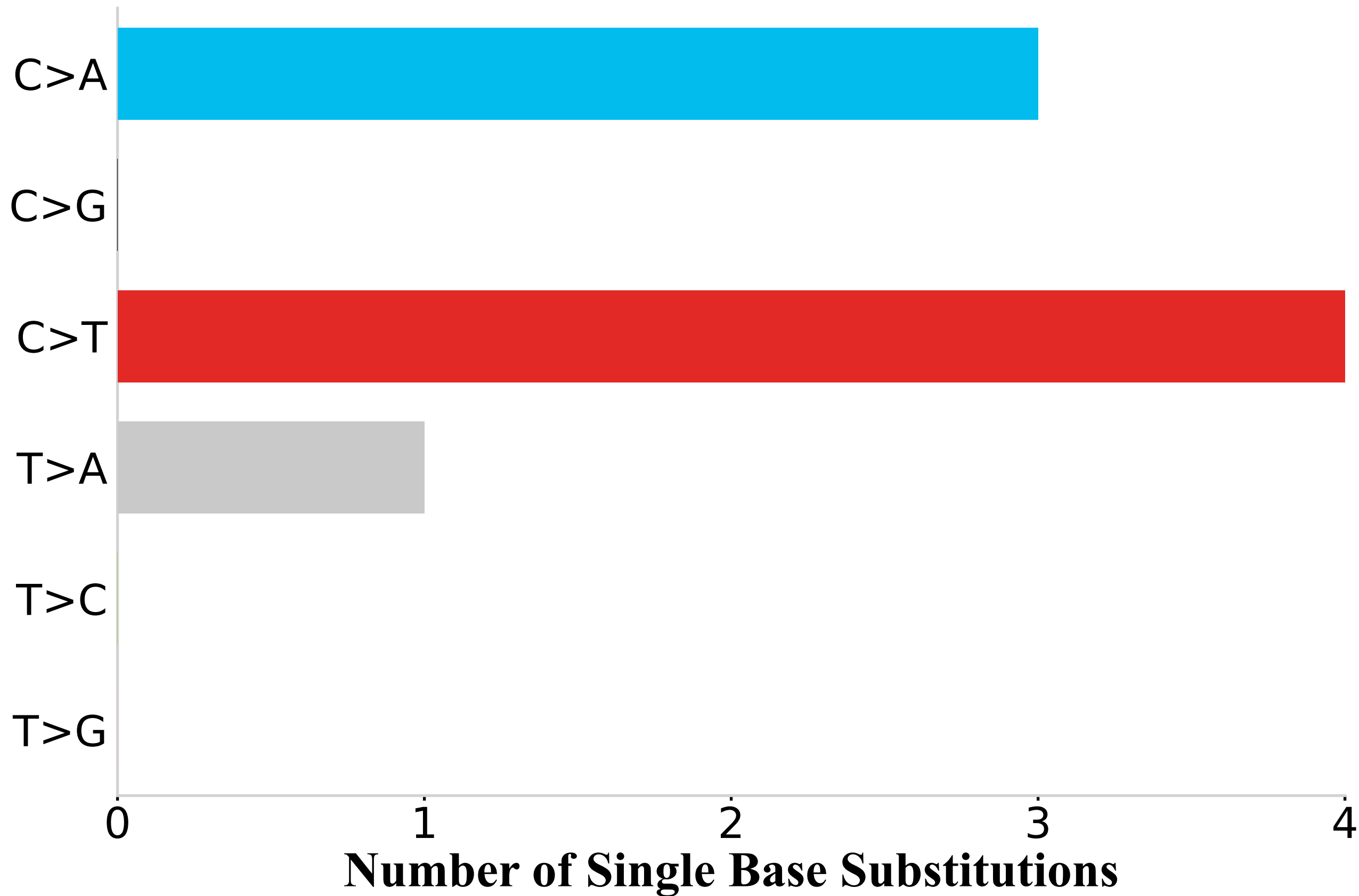
P-0028931-T01-IM6: 7 subs



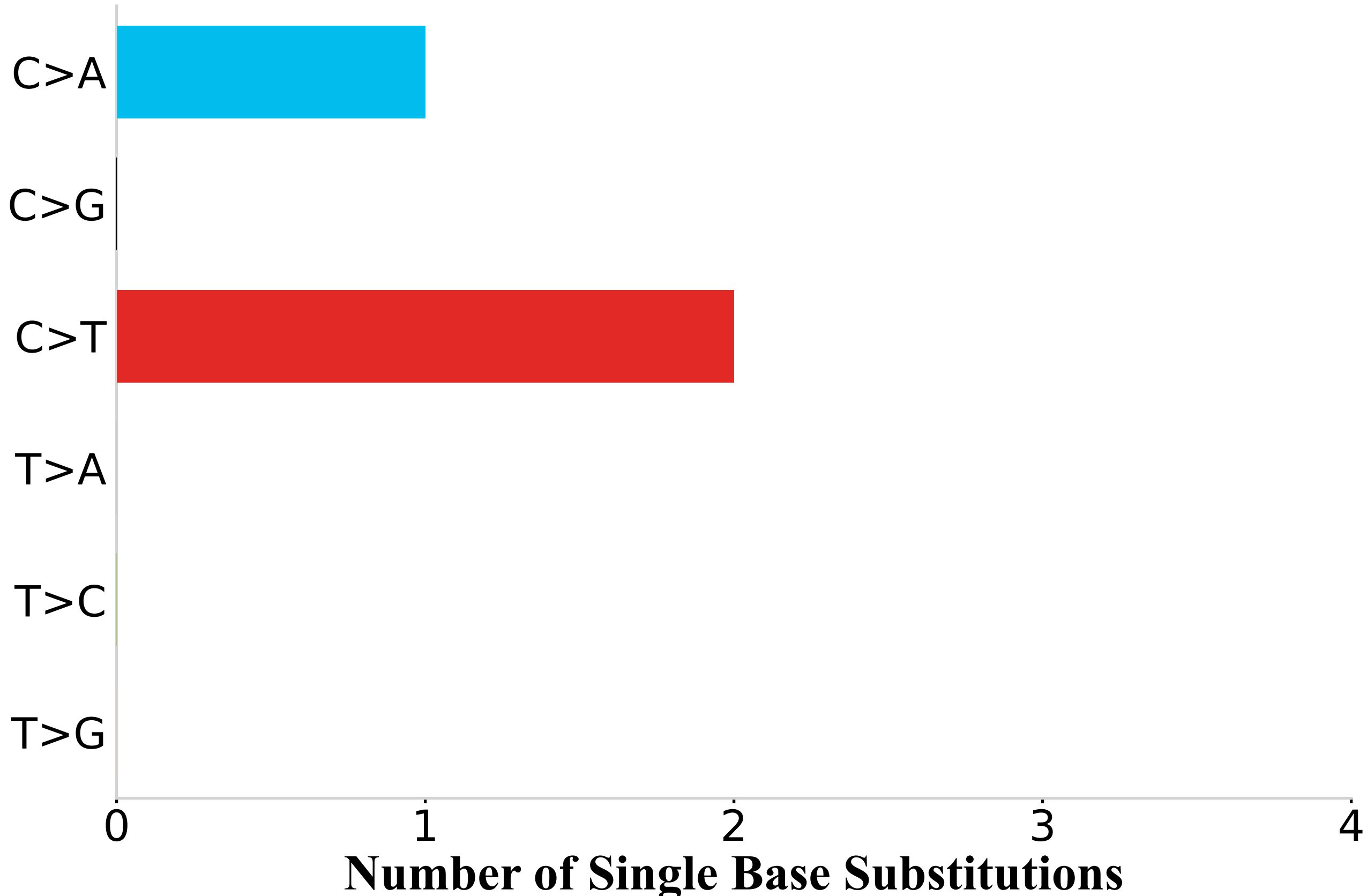
P-0029024-T01-IM6: 3 subs



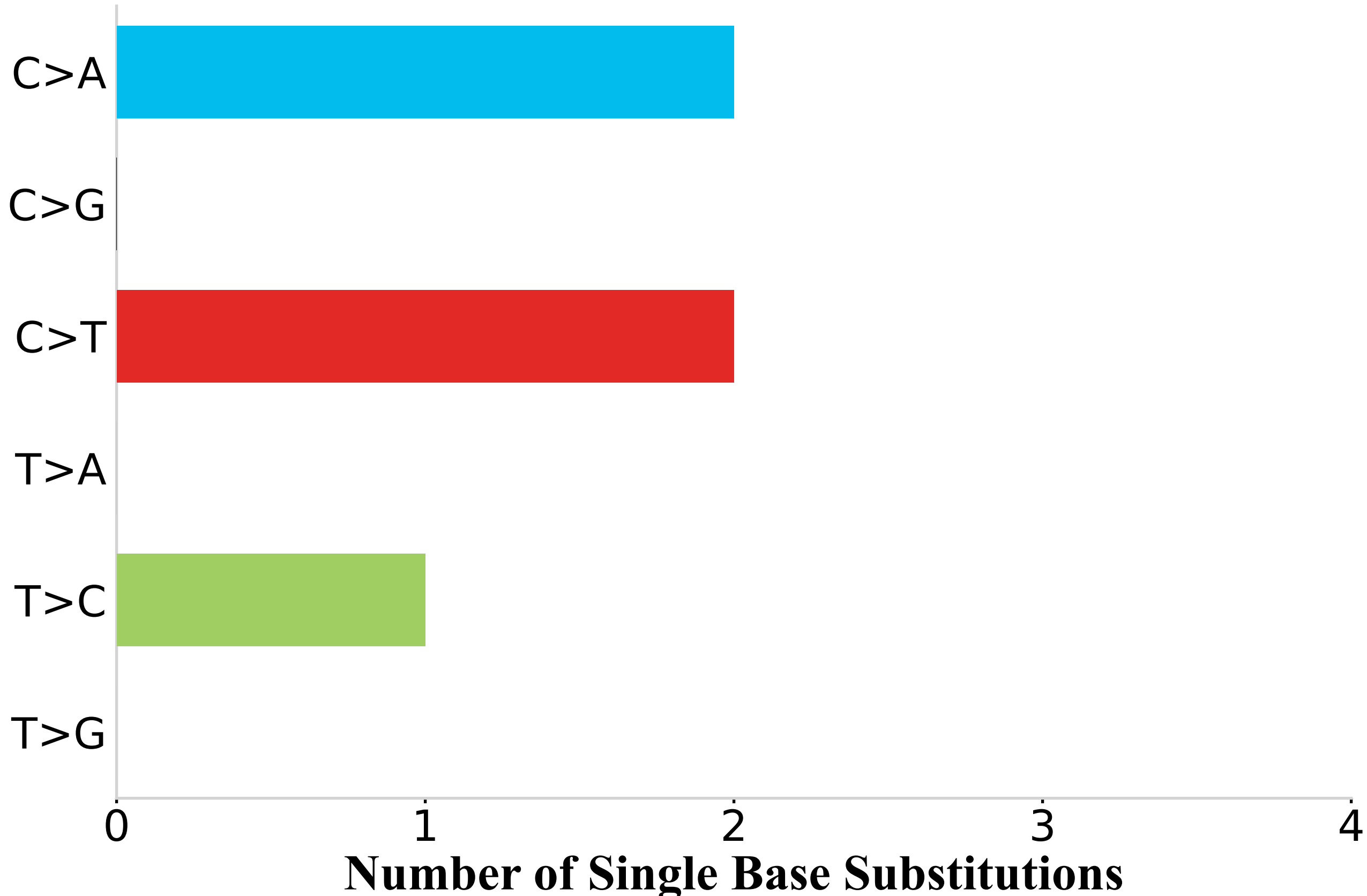
P-0029123-T01-IM6: 8 subs



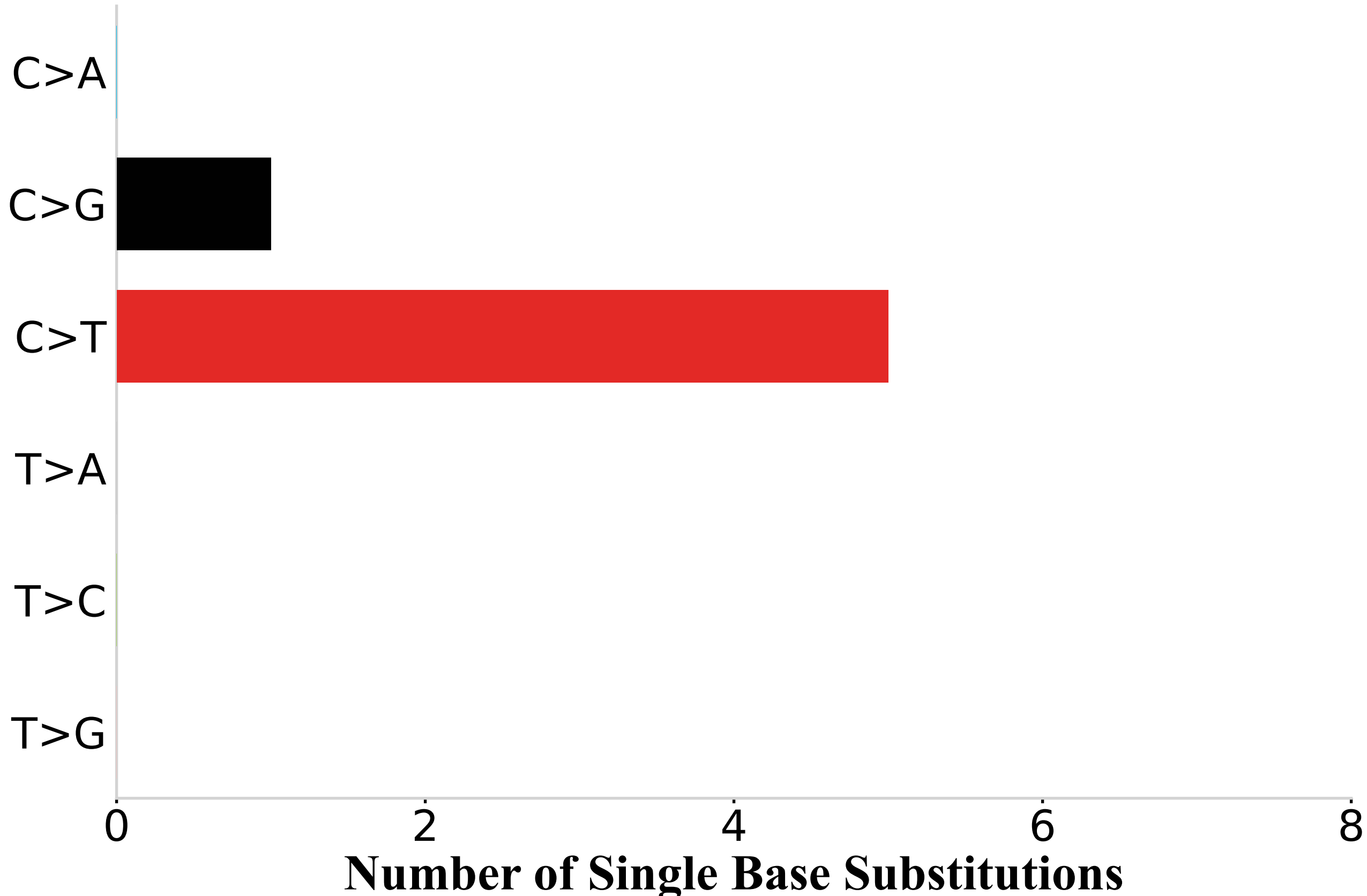
P-0029314-T01-IM6: 3 subs



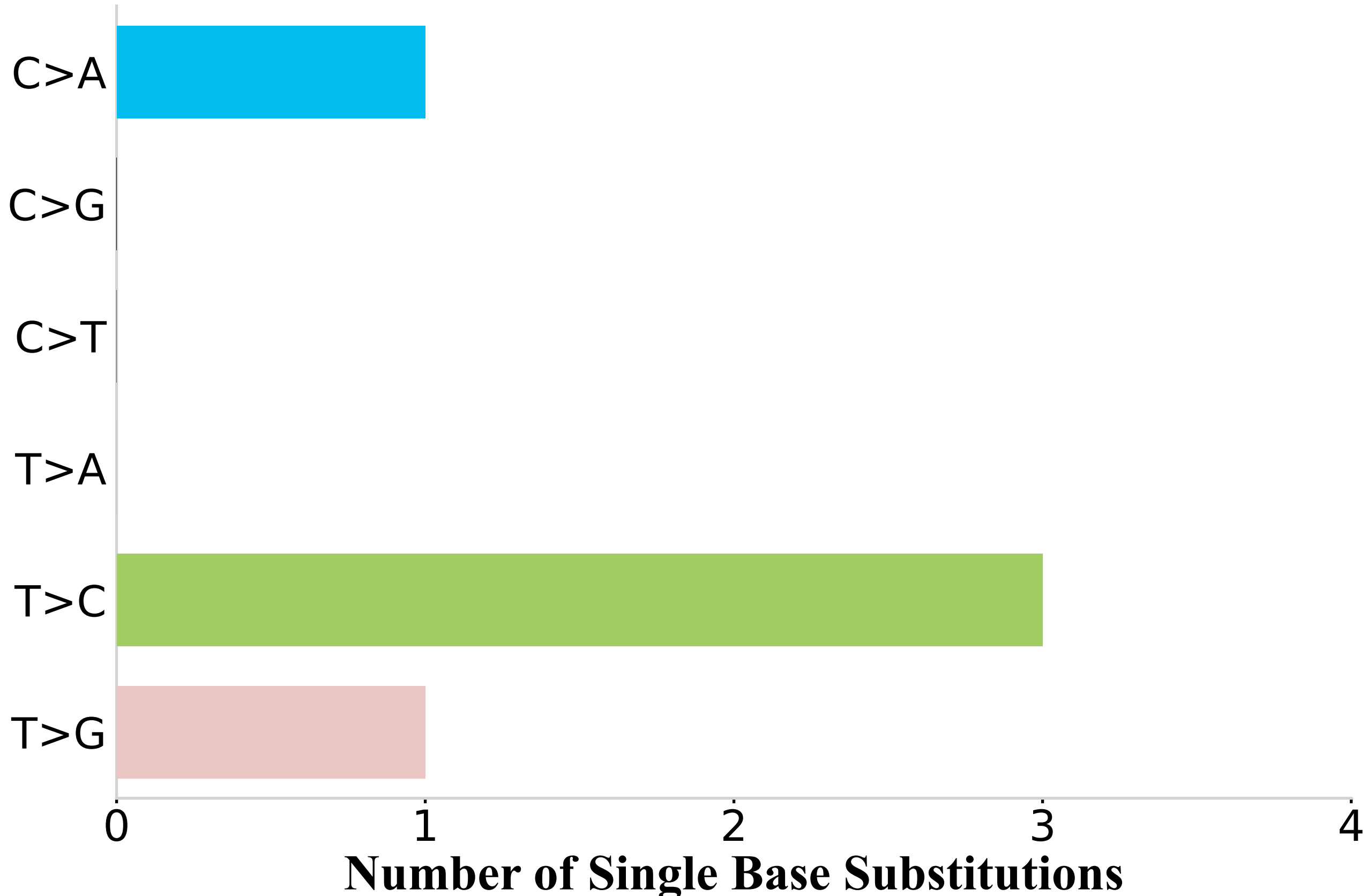
P-0029319-T01-IM6: 5 subs



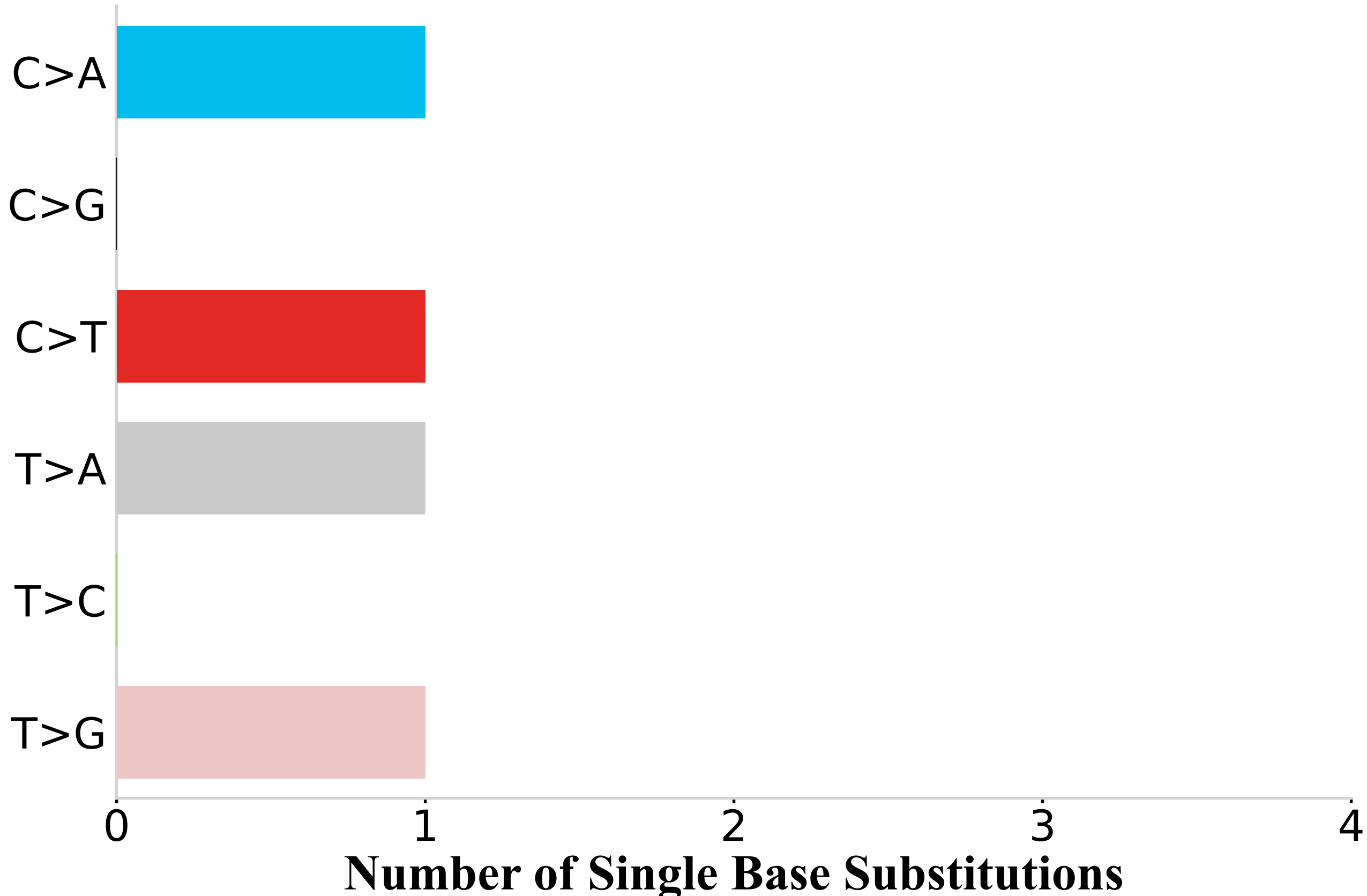
P-0029334-T01-IM6: 6 subs



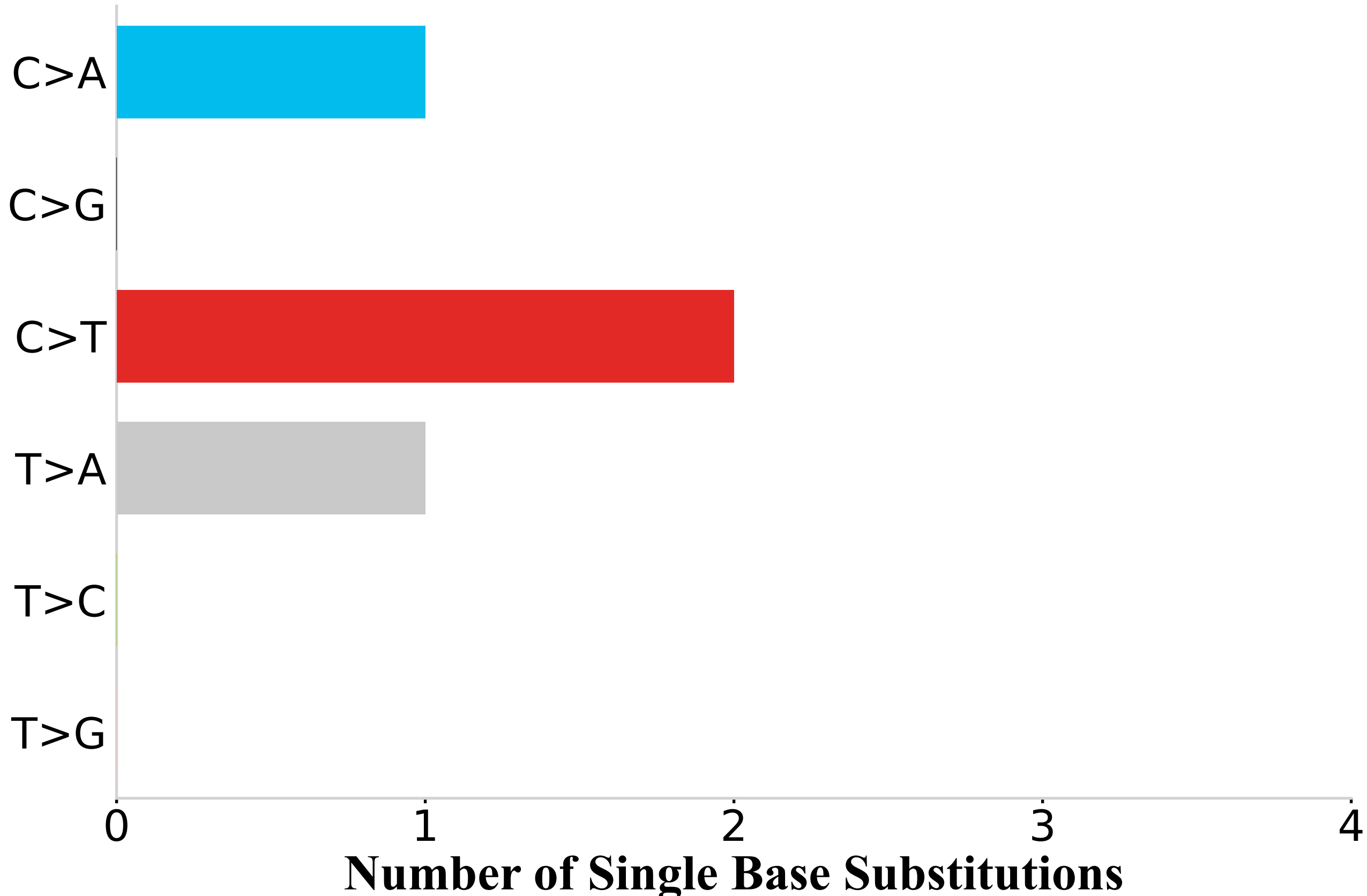
P-0029406-T01-IM6: 5 subs



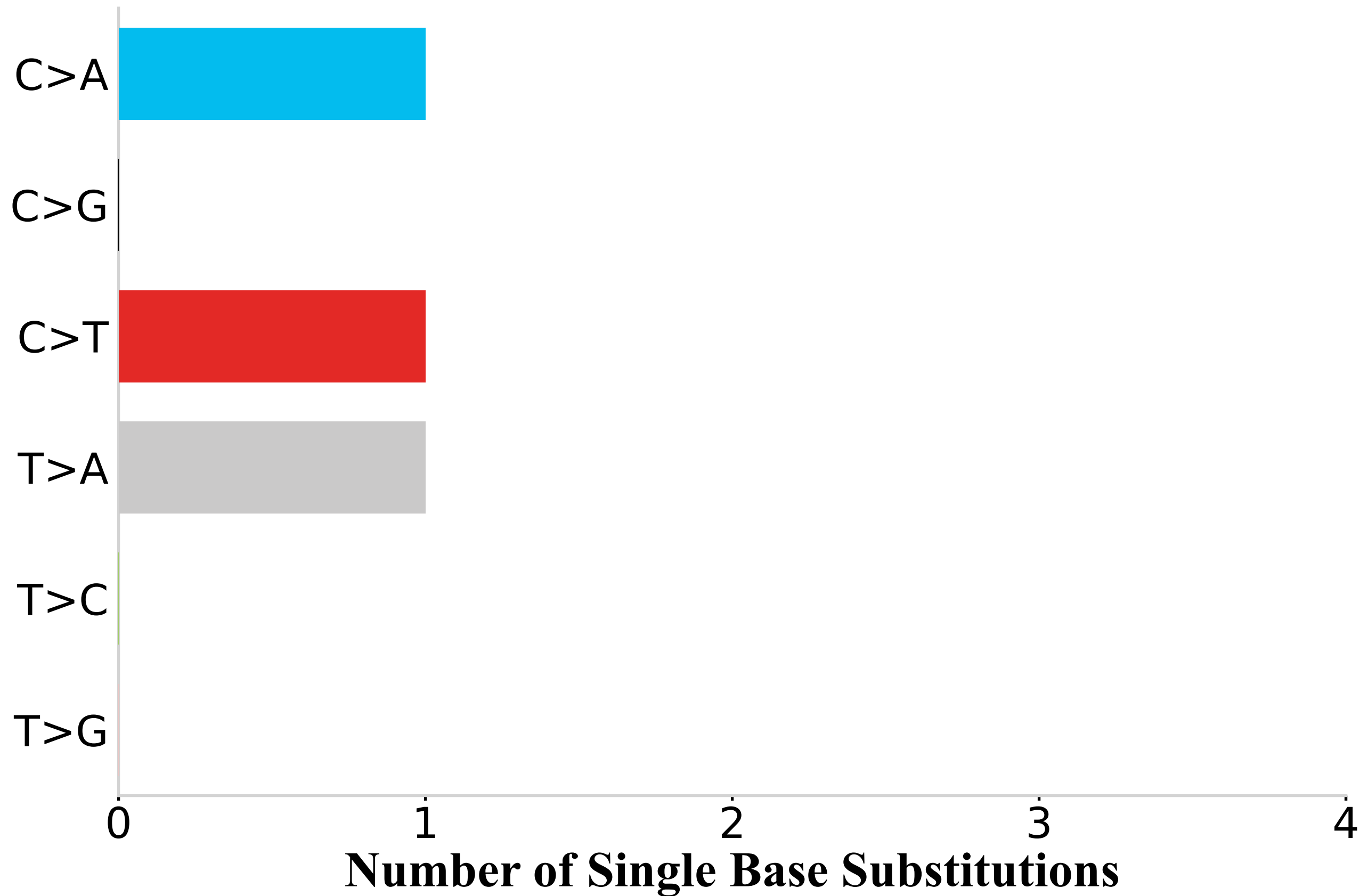
P-0029430-T01-IM6: 4 subs



P-0029546-T01-IM6: 4 subs



P-0029587-T01-IM6: 3 subs



P-0029617-T02-IM6: 3 subs

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C>G

C>T

T>A

T>C

T>G

0

1

2

3

4

Number of Single Base Substitutions



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C>G

C>T

T>A

T>C

T>G

0

1

2

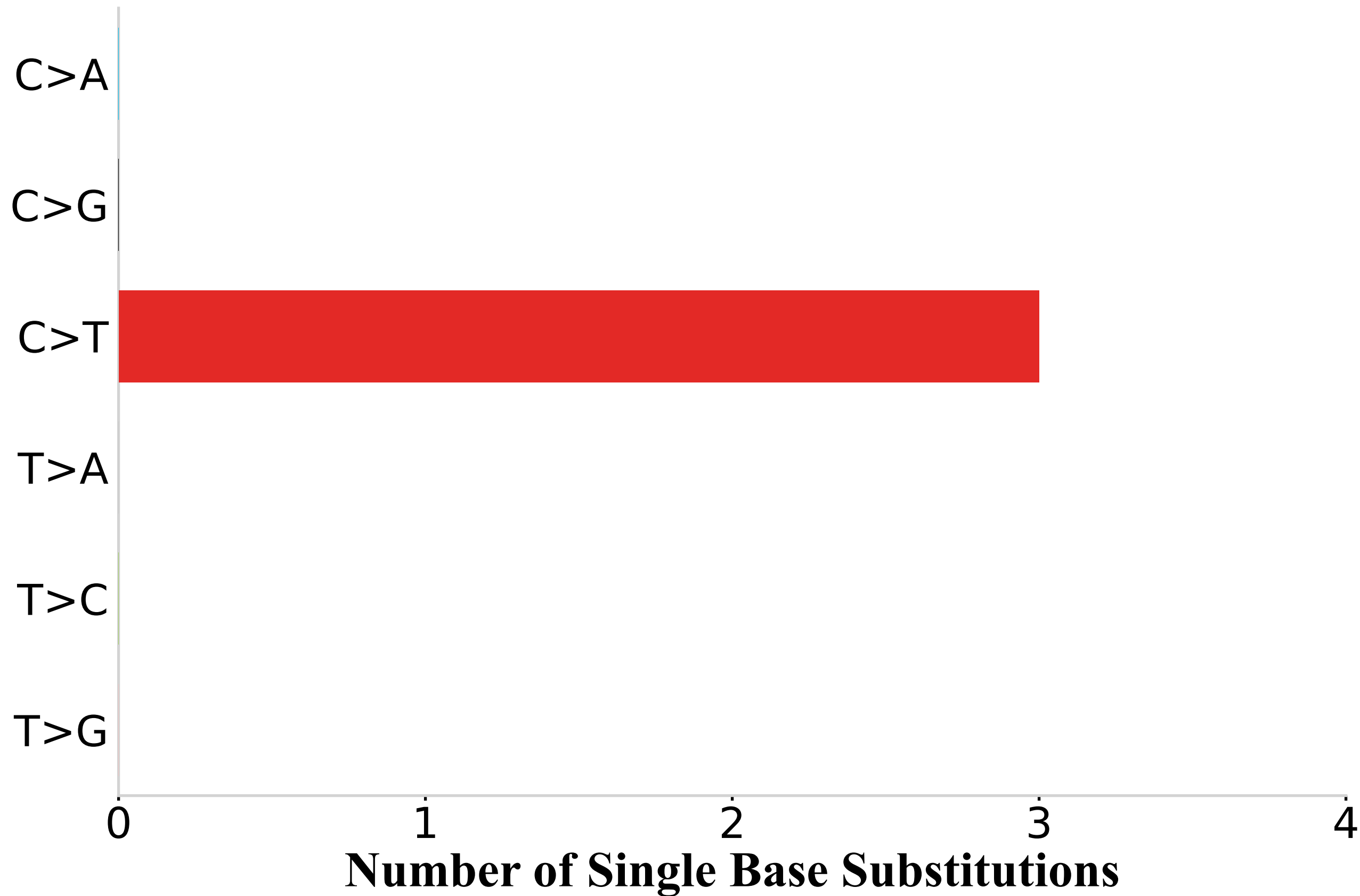
3

4

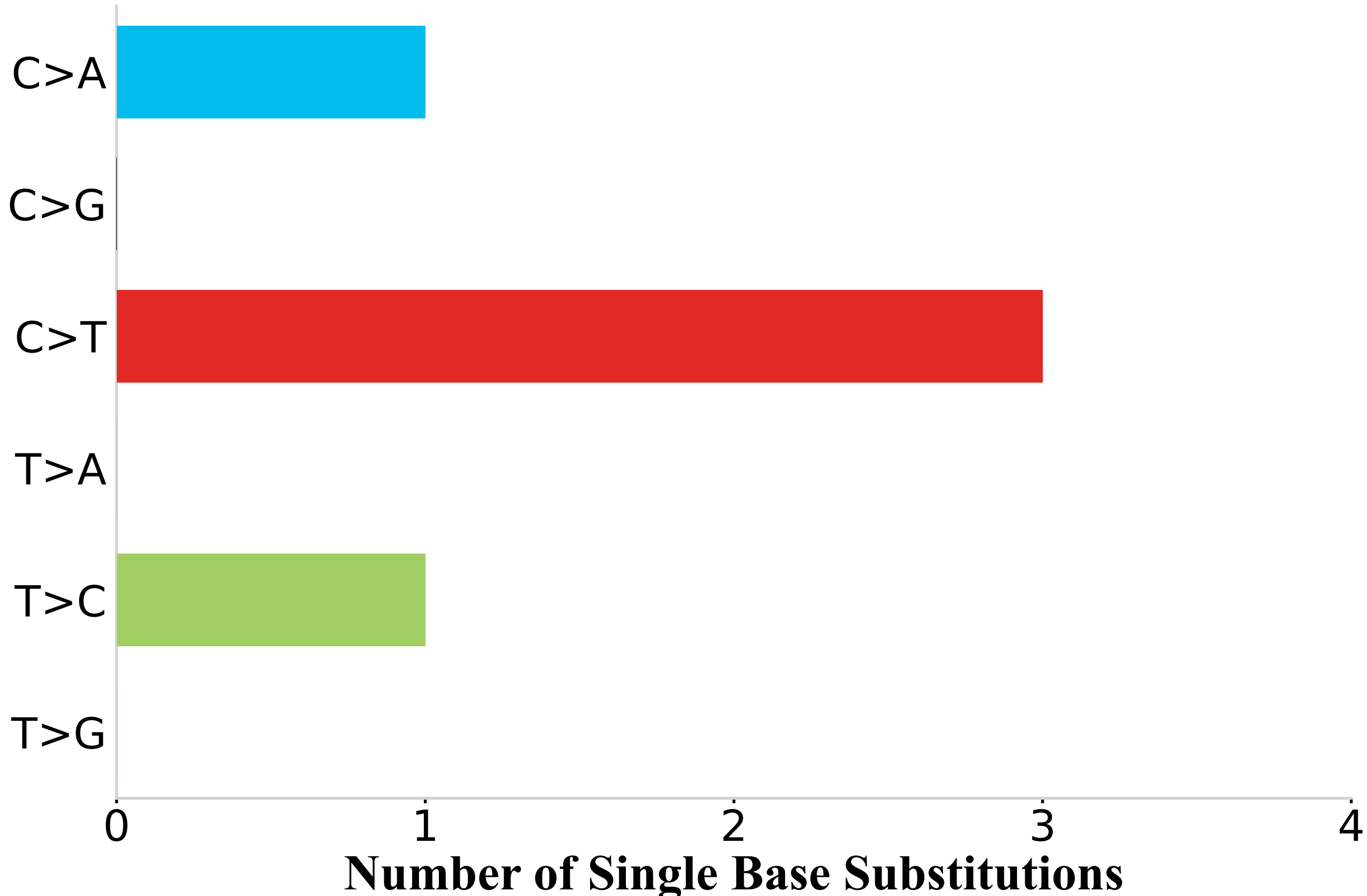
Number of Single Base Substitutions



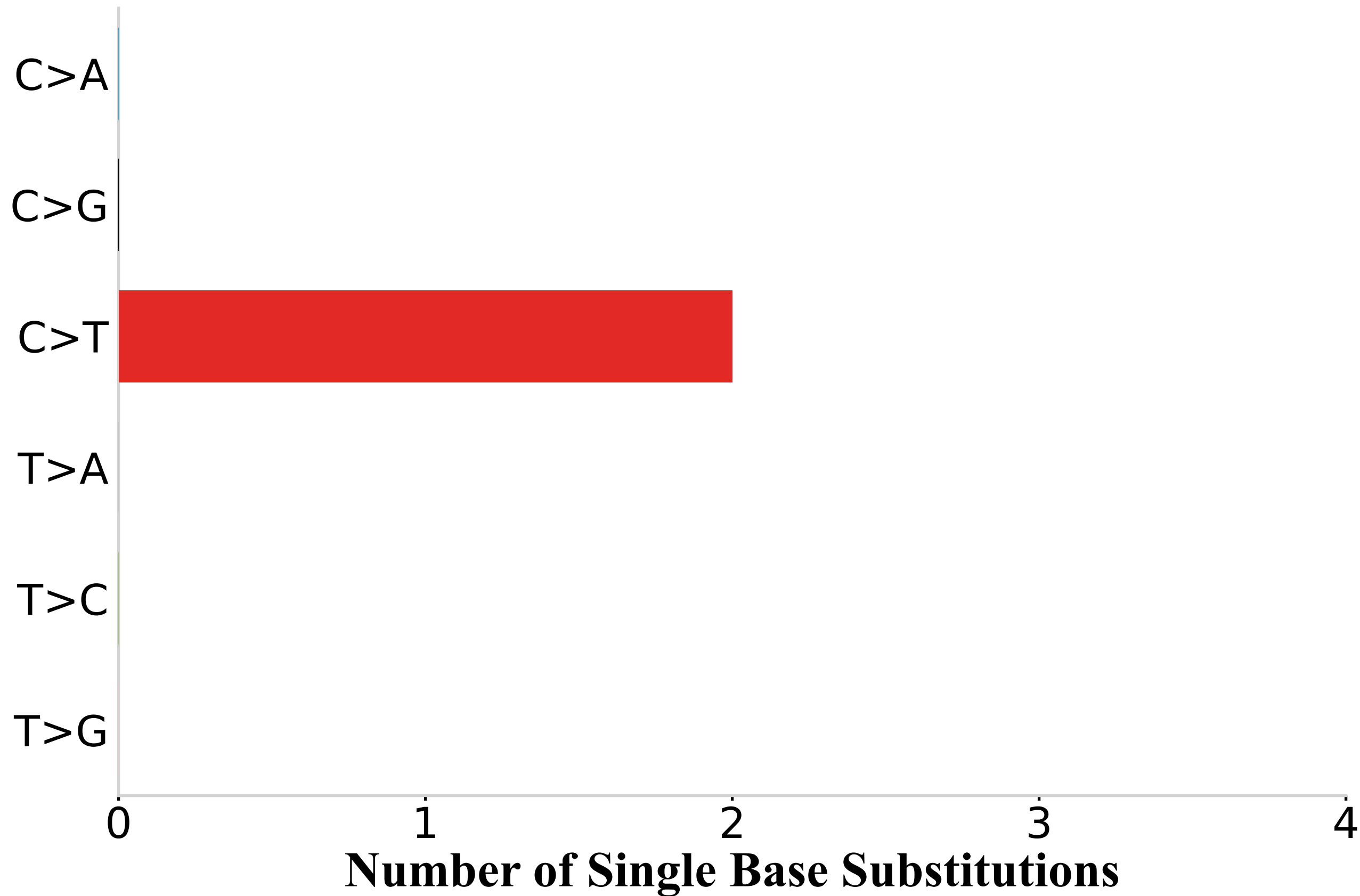
P-0029630-T01-IM6: 3 subs



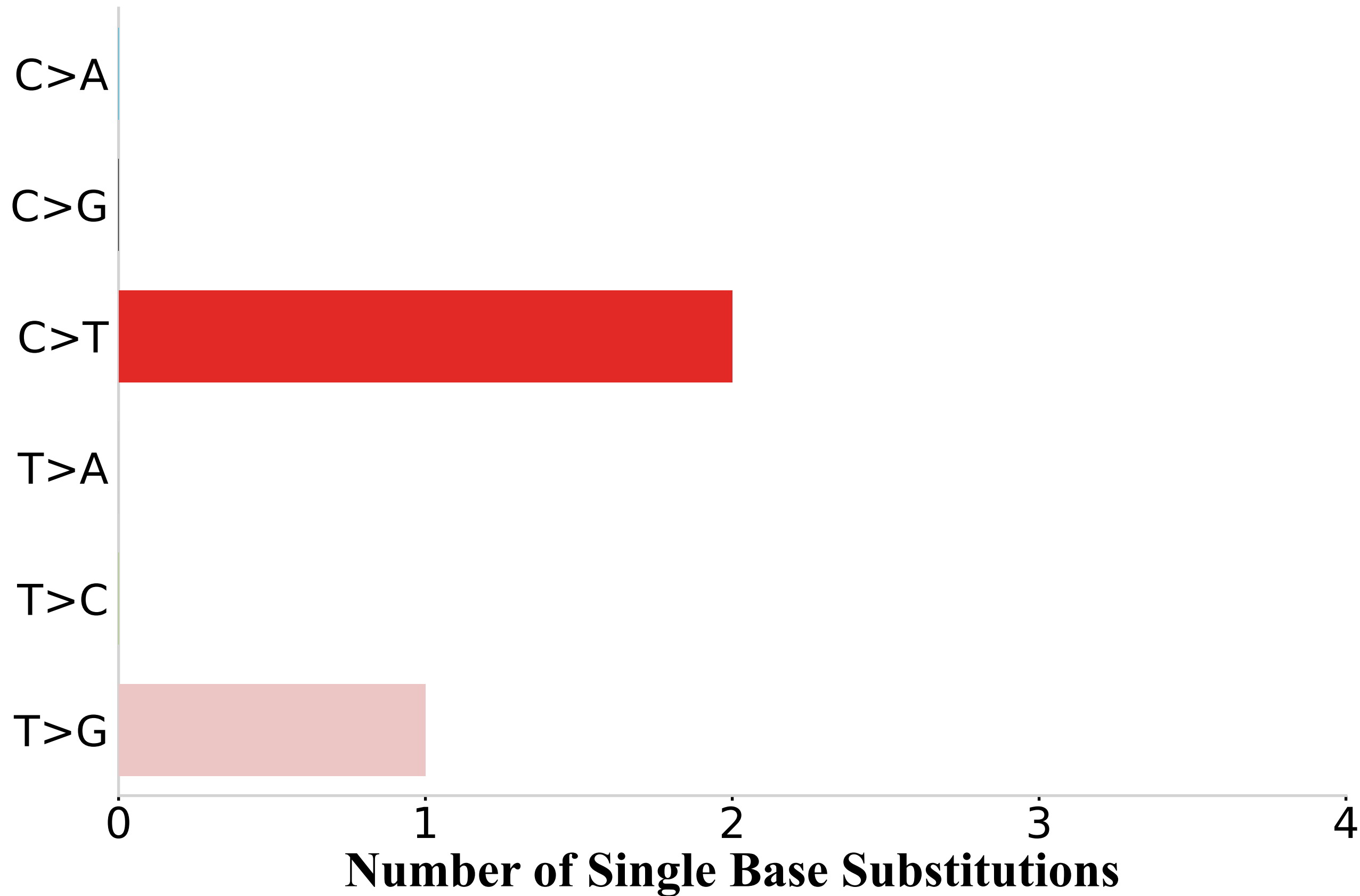
P-0029660-T01-IM6: 5 subs



P-0029722-T01-IM6: 2 subs



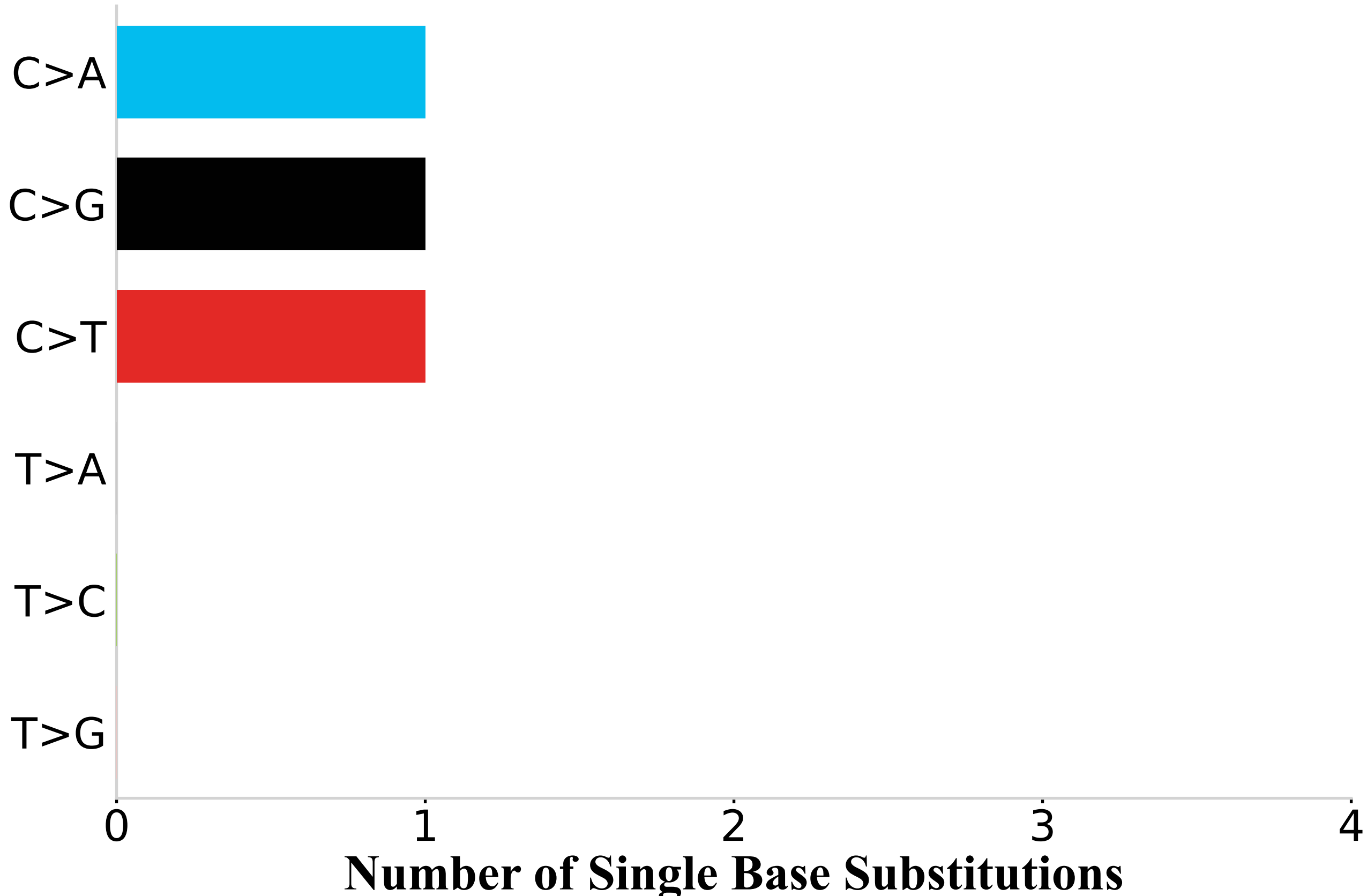
P-0029756-T01-IM6: 3 subs



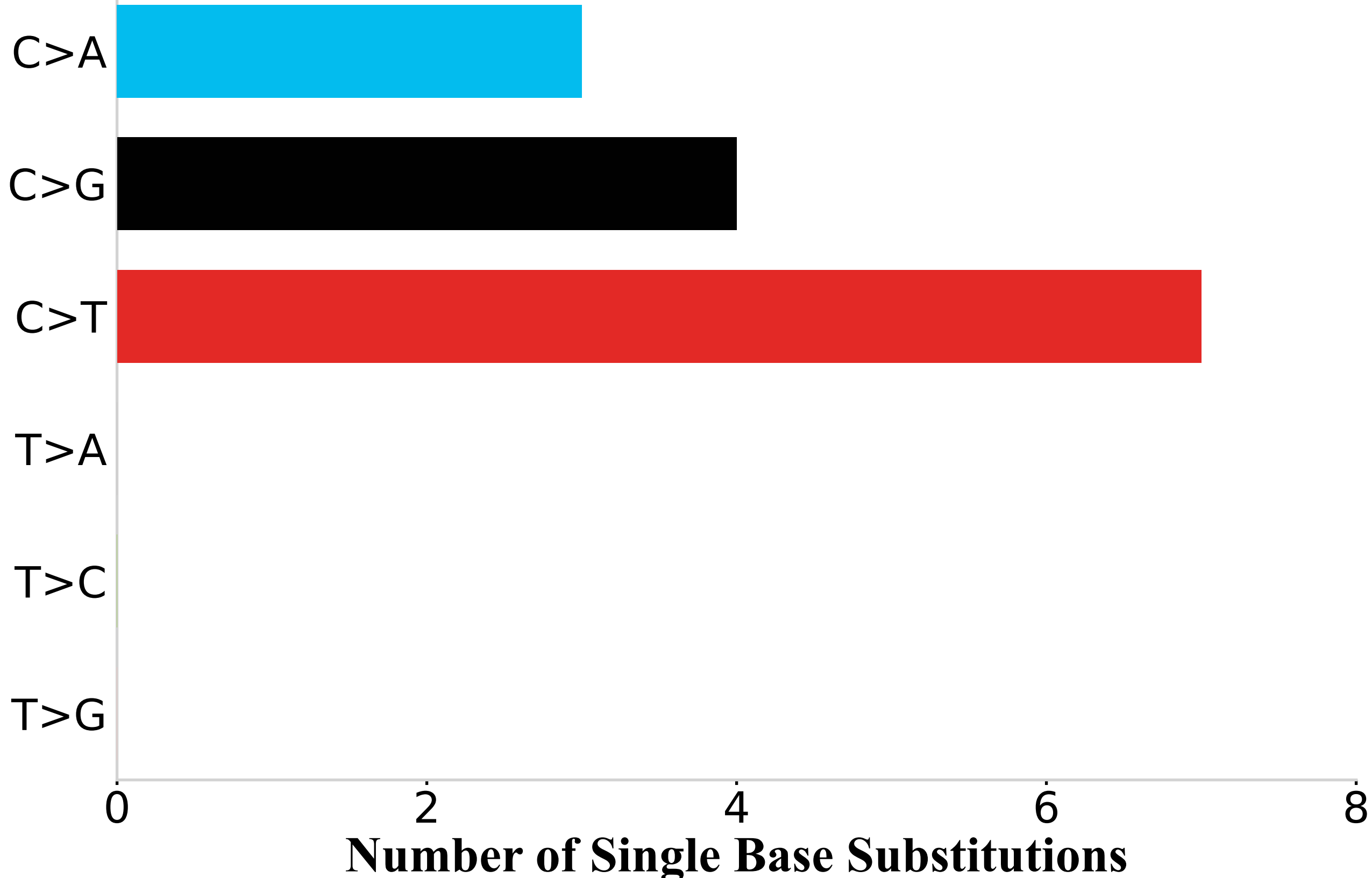
P-0029793-T01-IM6: 1 subs



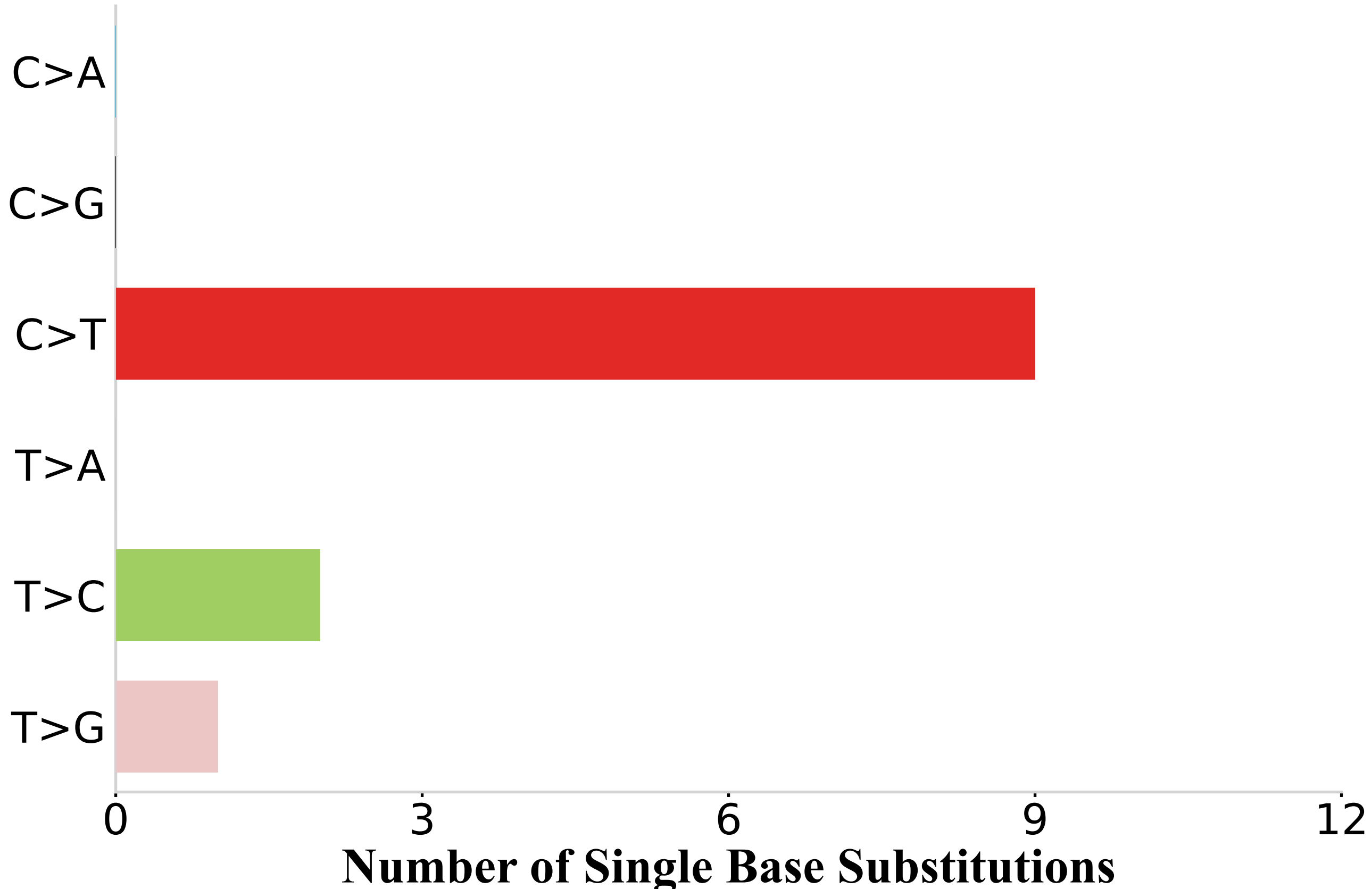
P-0029957-T01-IM6: 3 subs



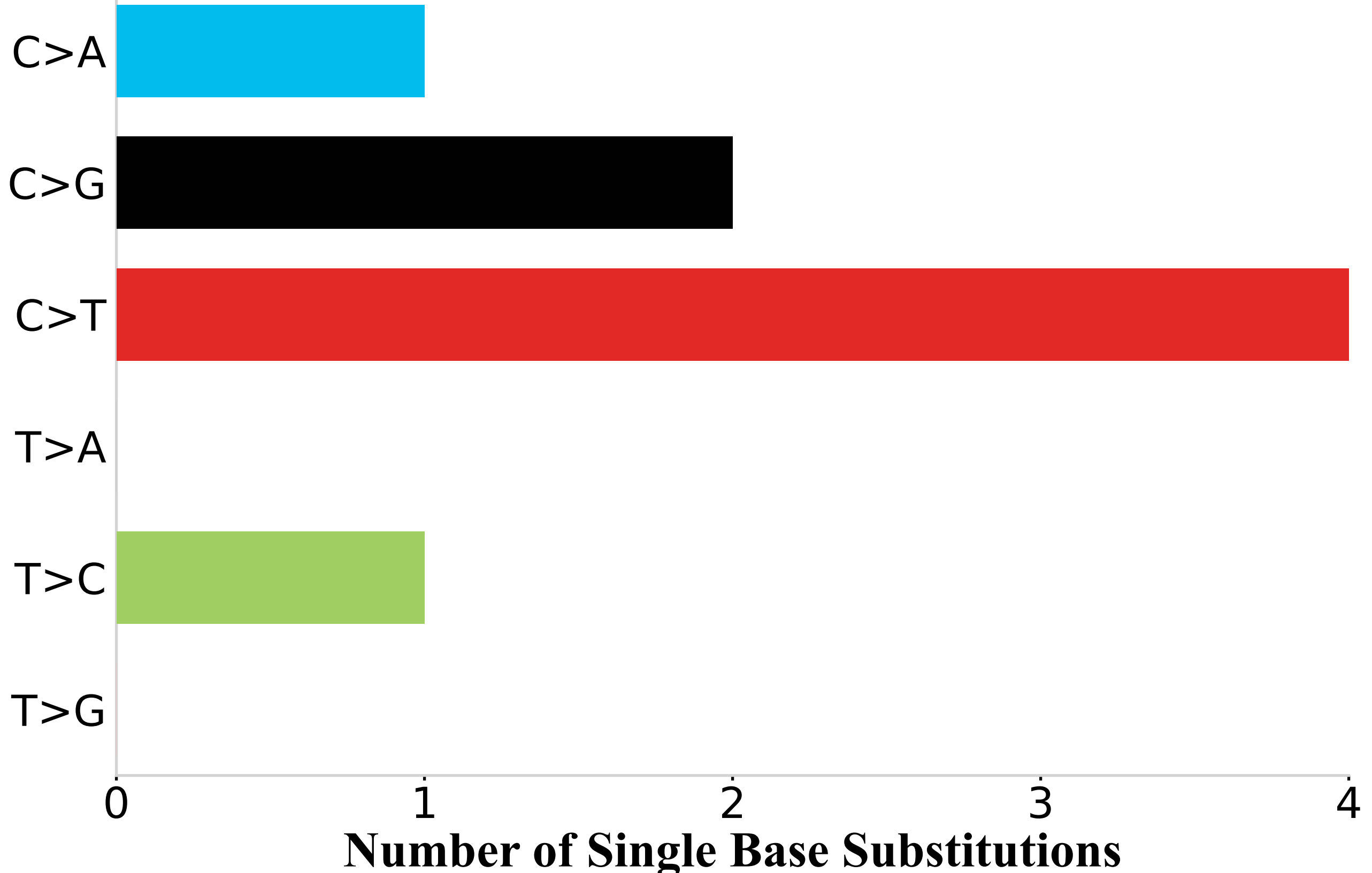
P-0029984-T01-IM6: 14 subs



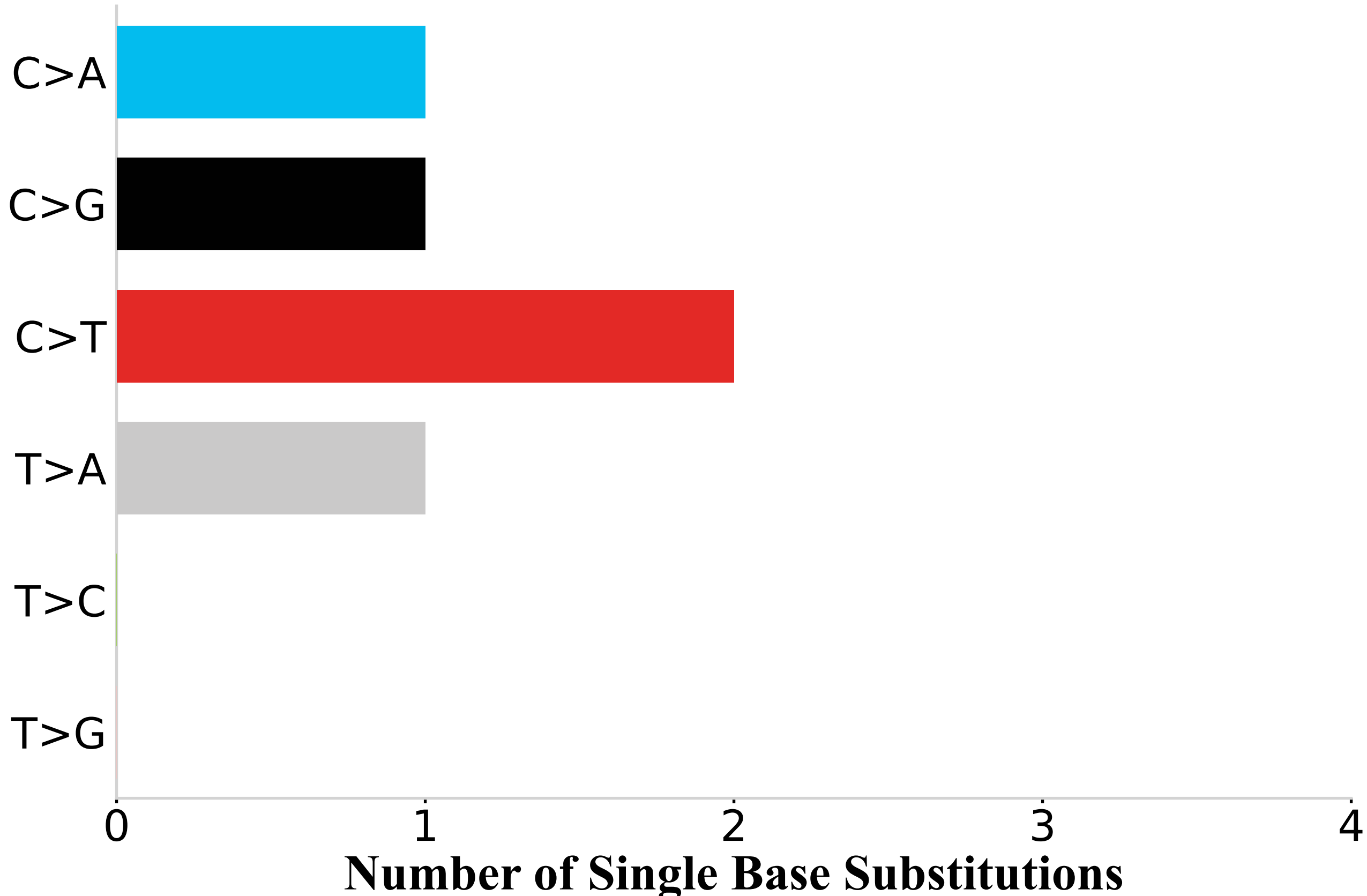
P-0030414-T01-IM6: 12 subs



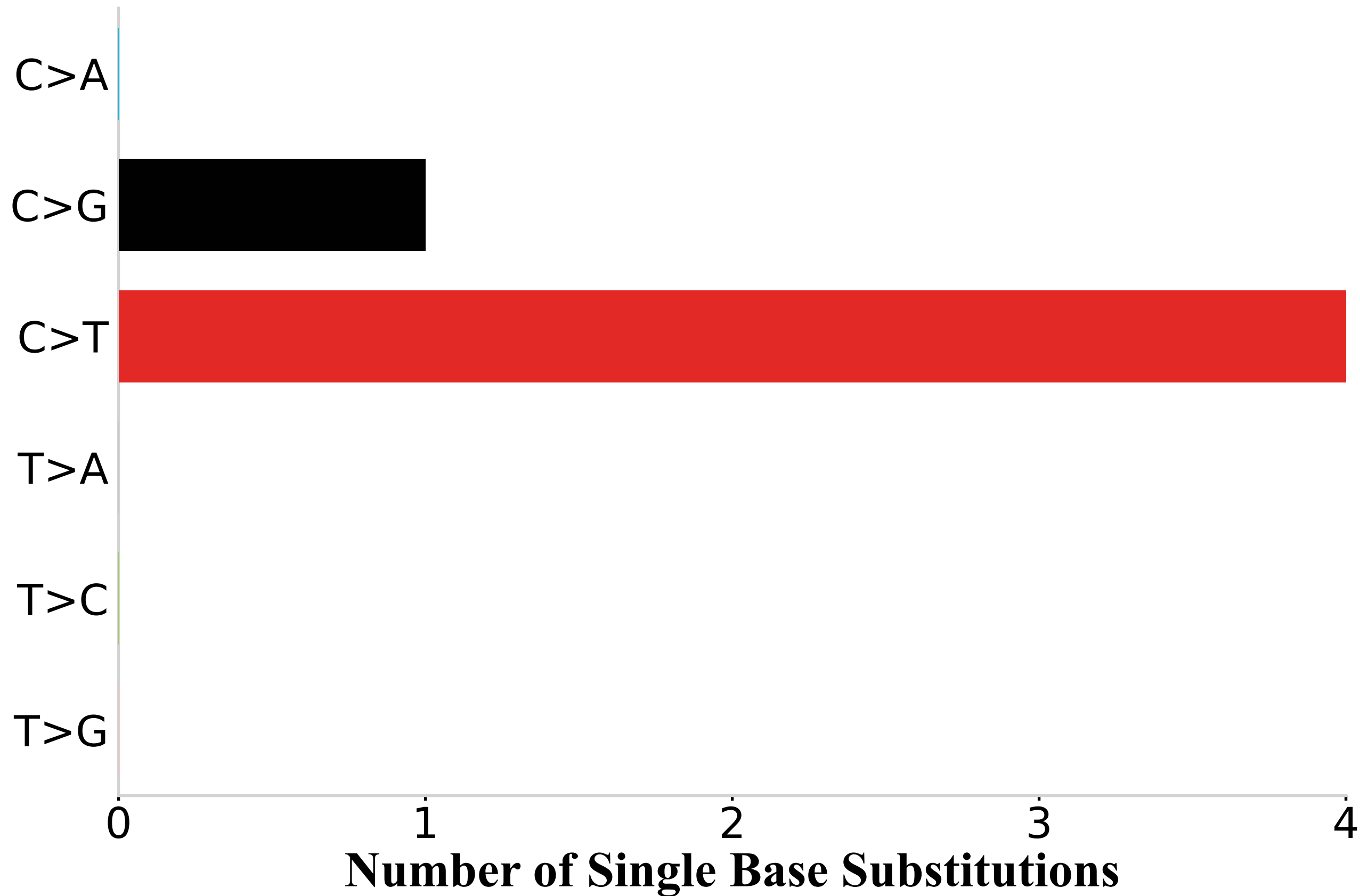
P-0030587-T01-IM6: 8 subs



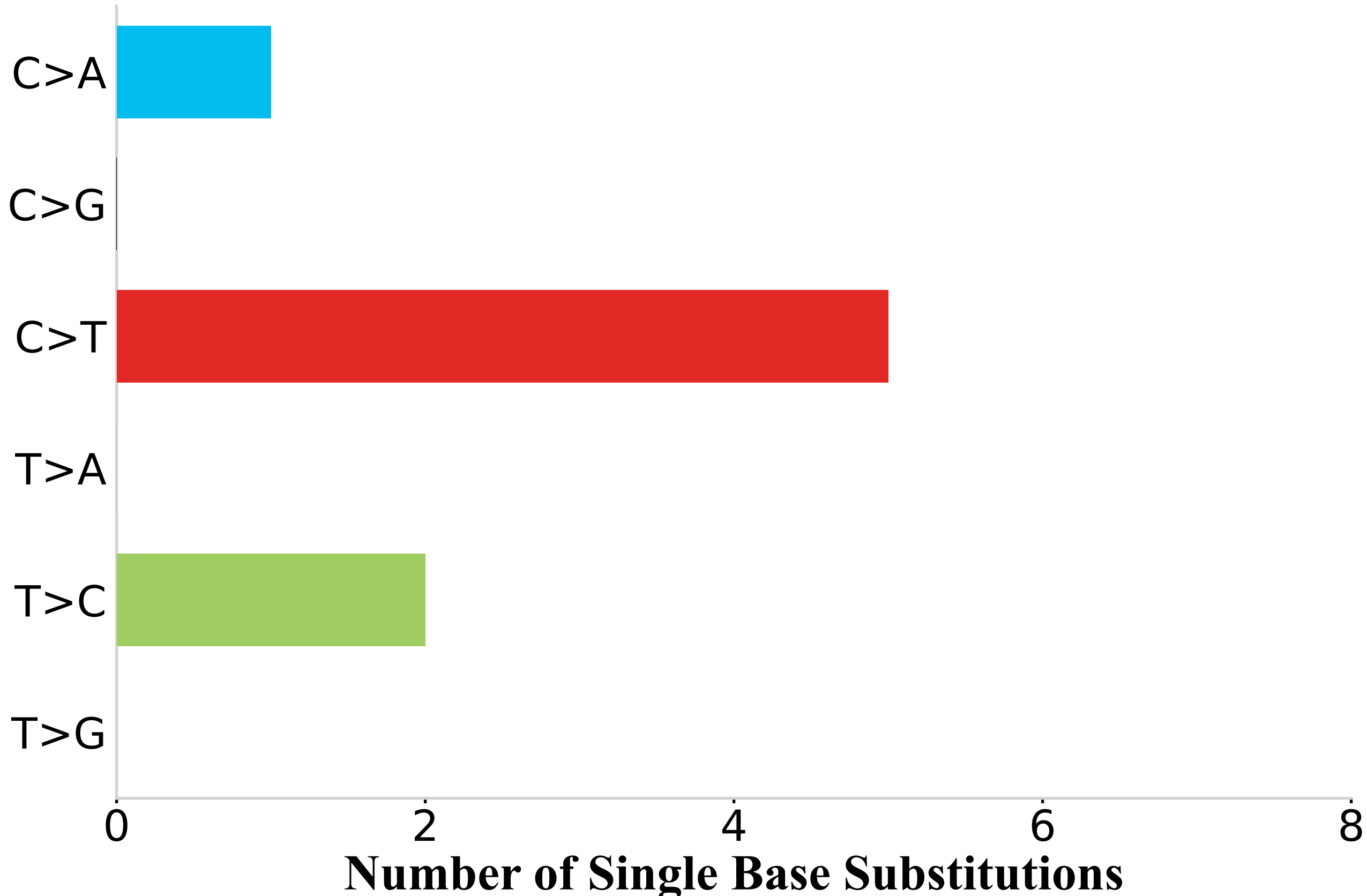
P-0030593-T01-IM6: 5 subs



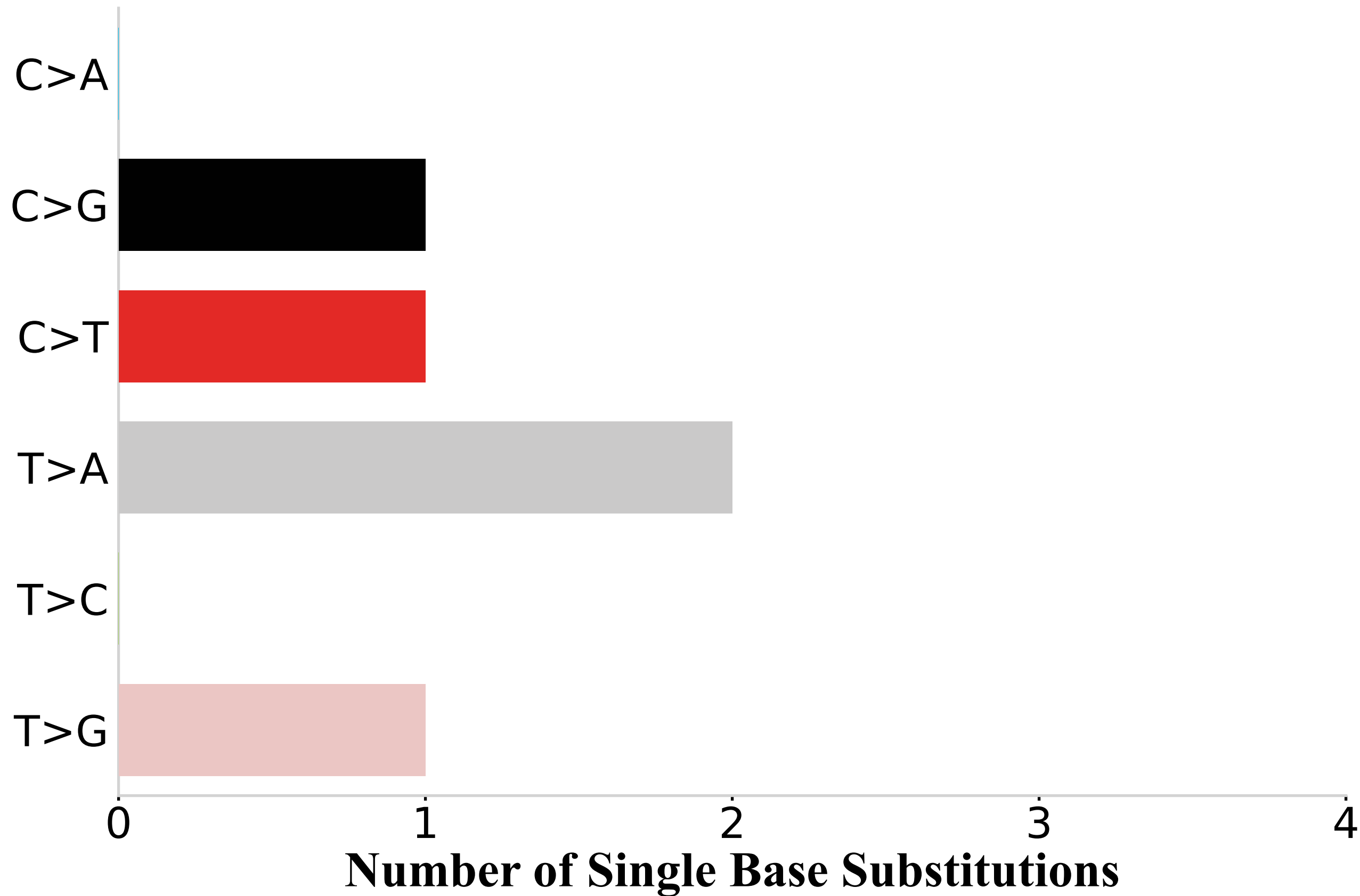
P-0030847-T01-IM6: 5 subs



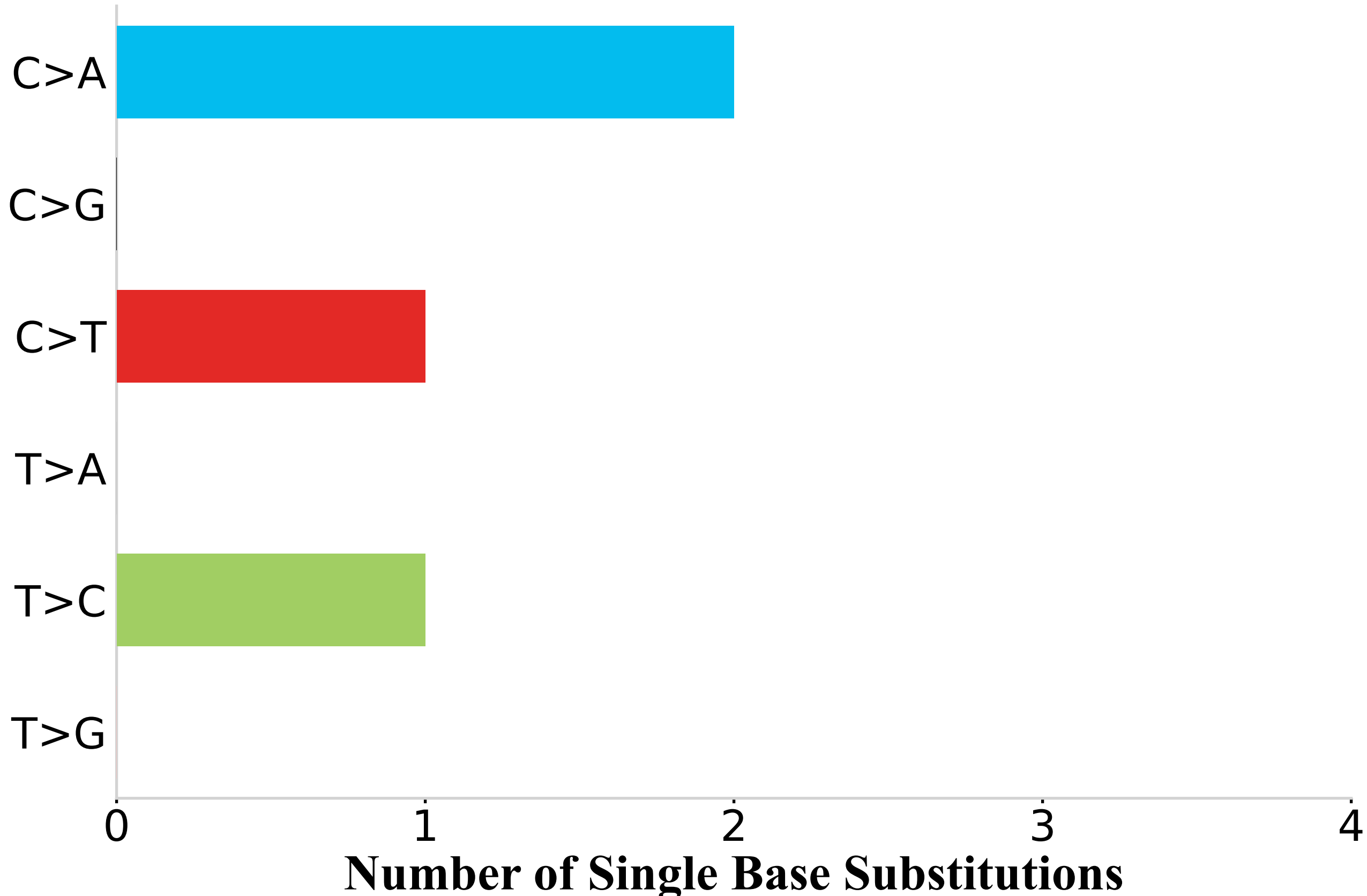
P-0030897-T01-IM6: 8 subs



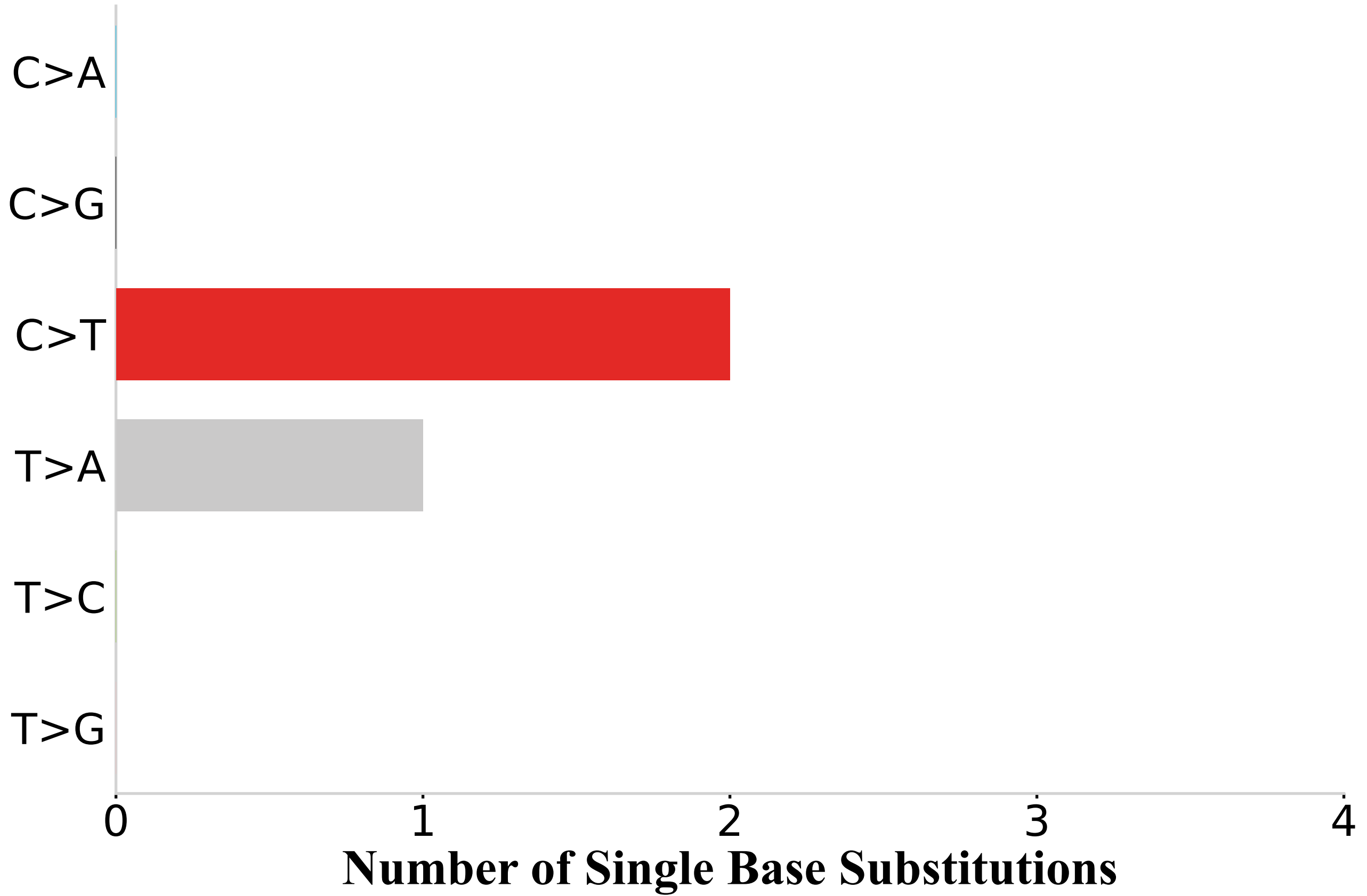
P-0030970-T01-IM6: 5 subs



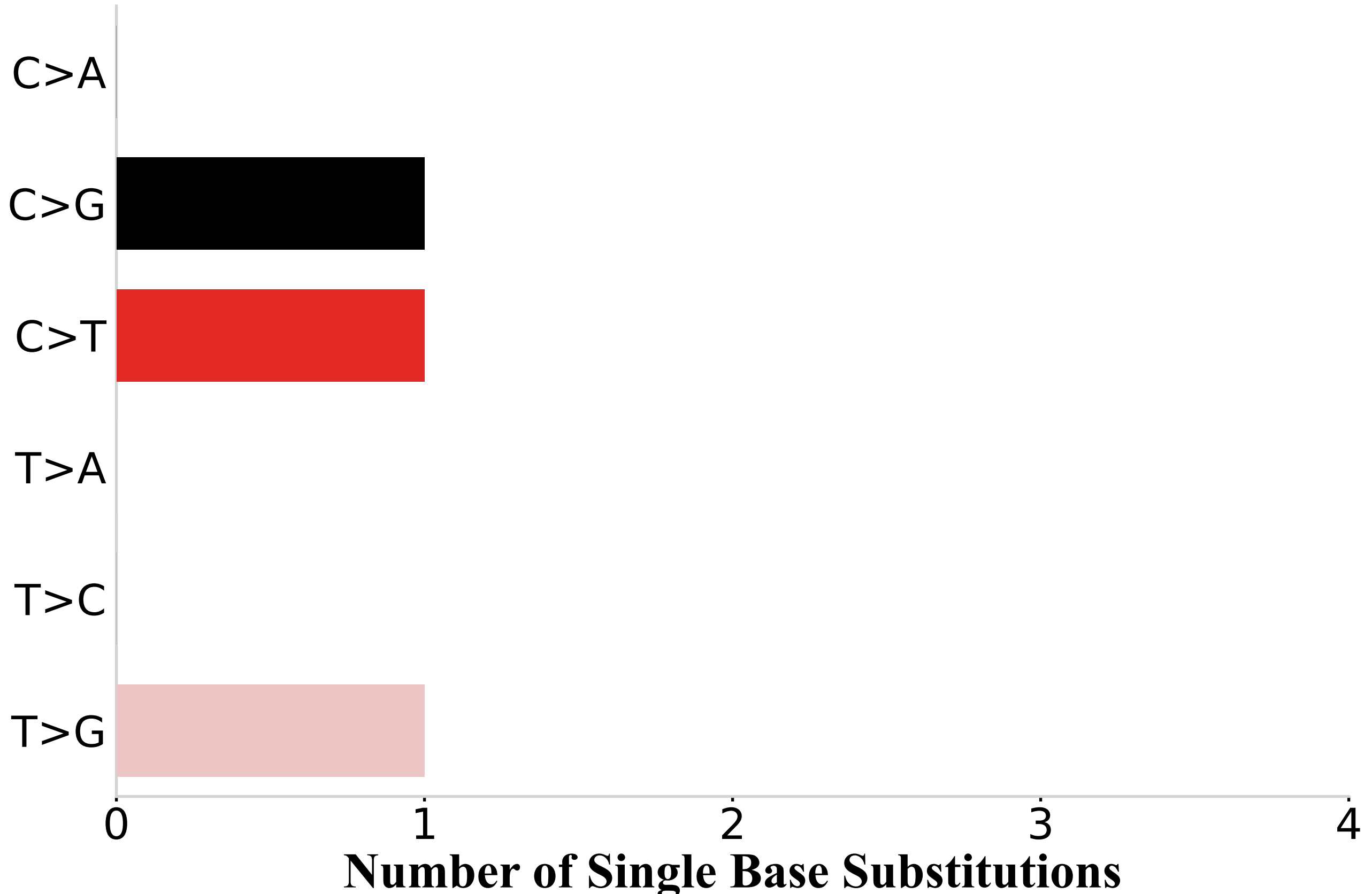
P-0031009-T01-IM6: 4 subs



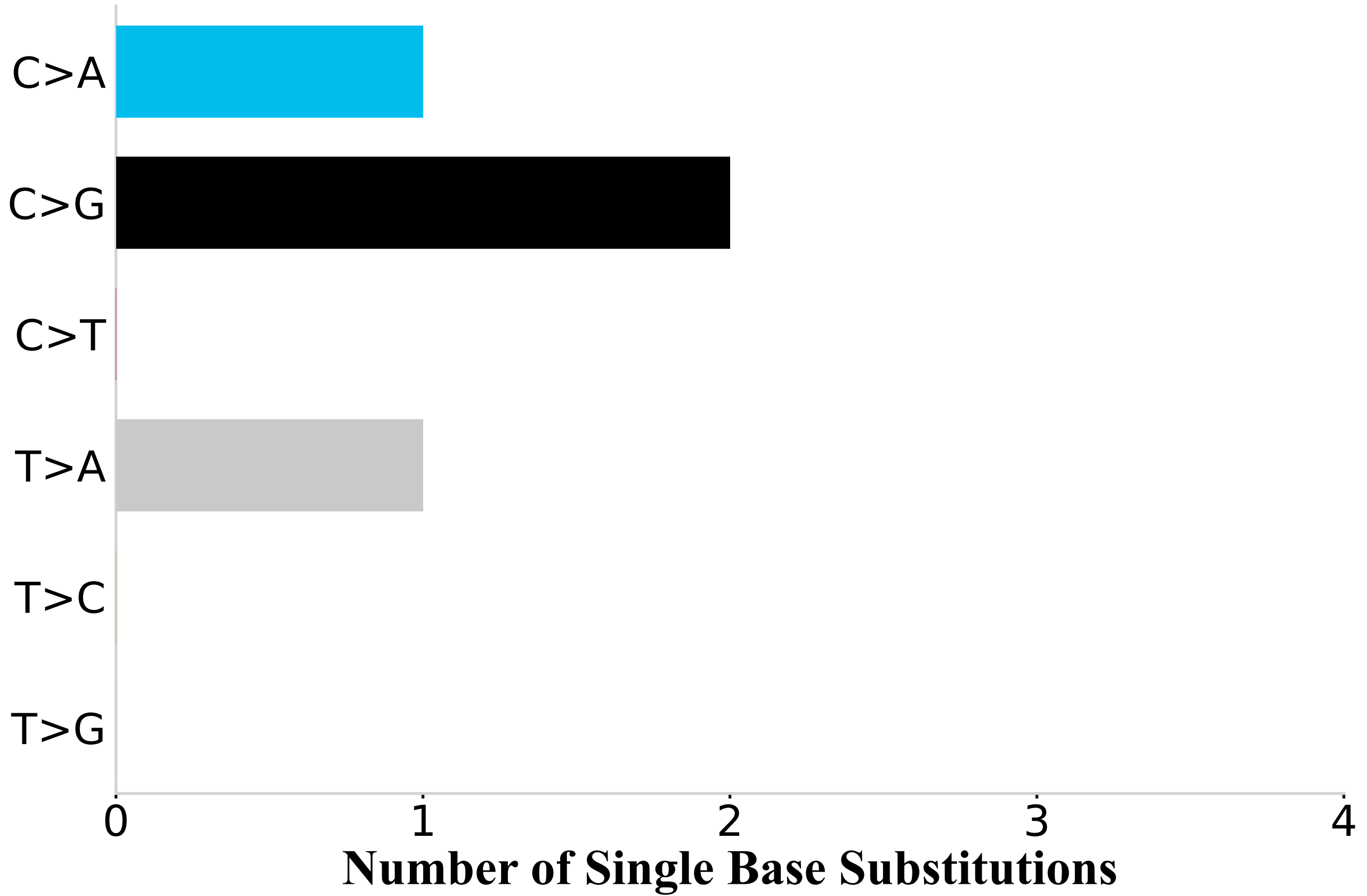
P-0031012-T01-IM6: 3 subs



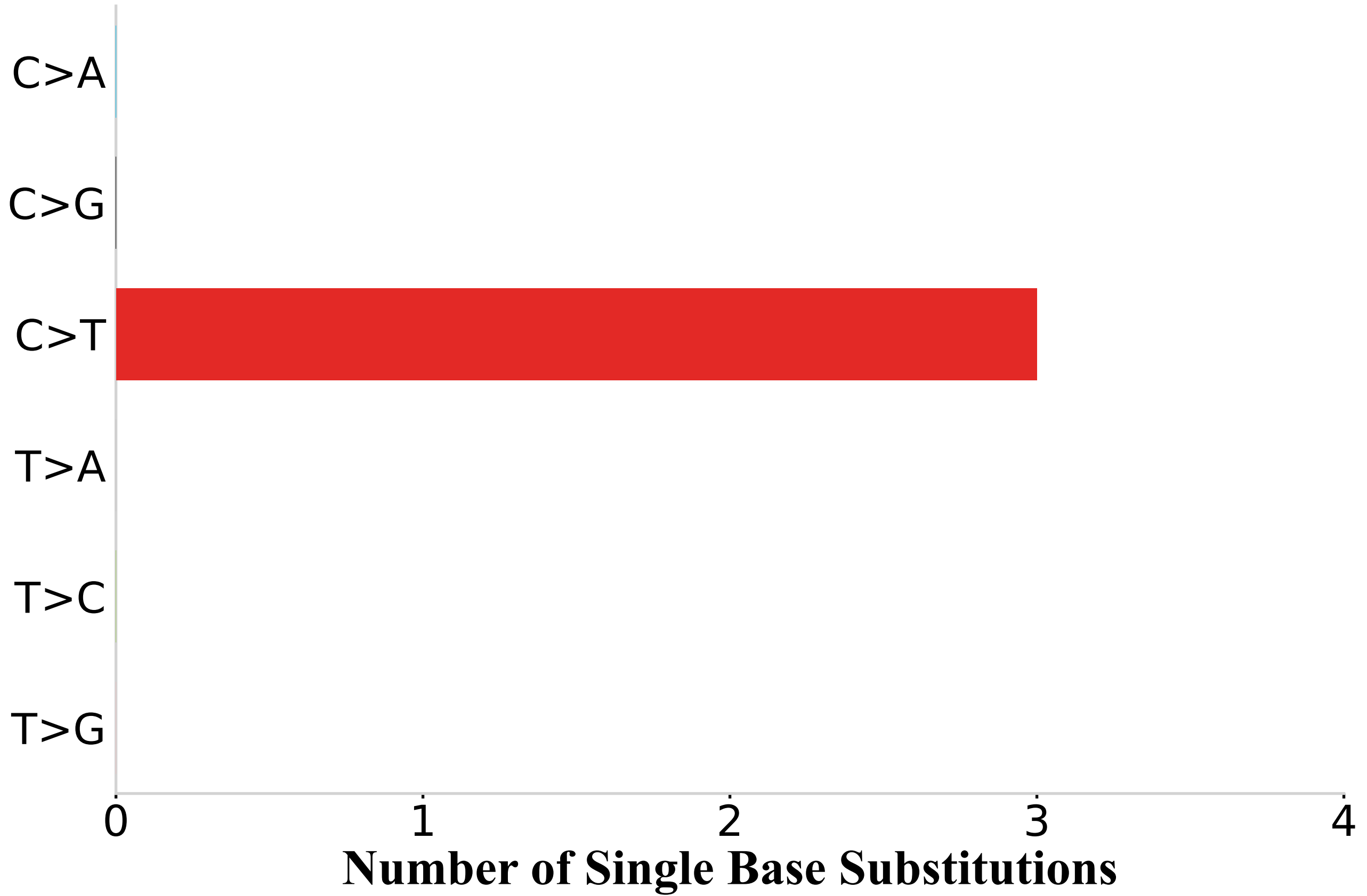
P-0031040-T01-IM6: 3 subs



P-0031129-T02-IM6: 4 subs



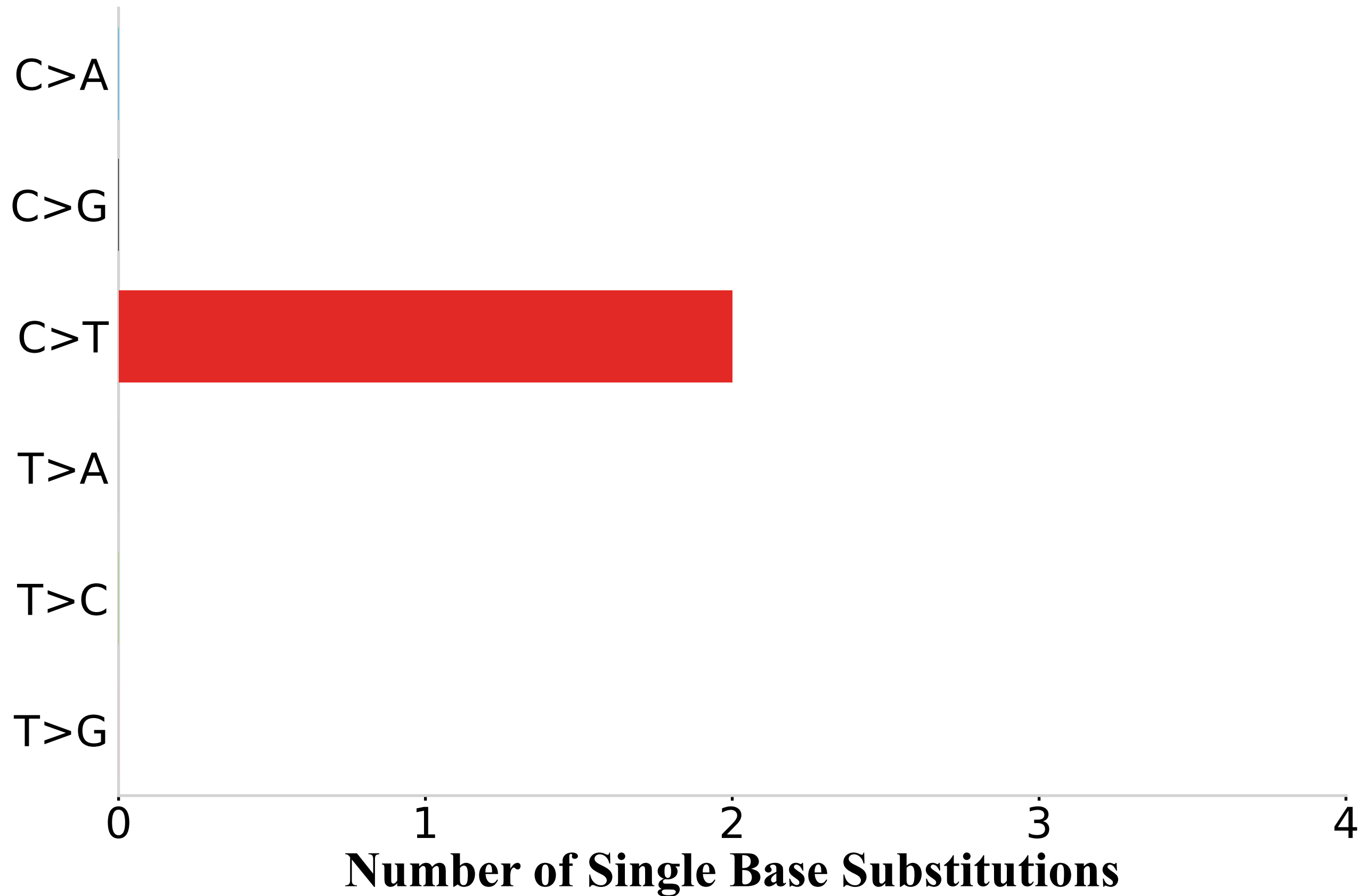
P-0031190-T01-IM6: 3 subs



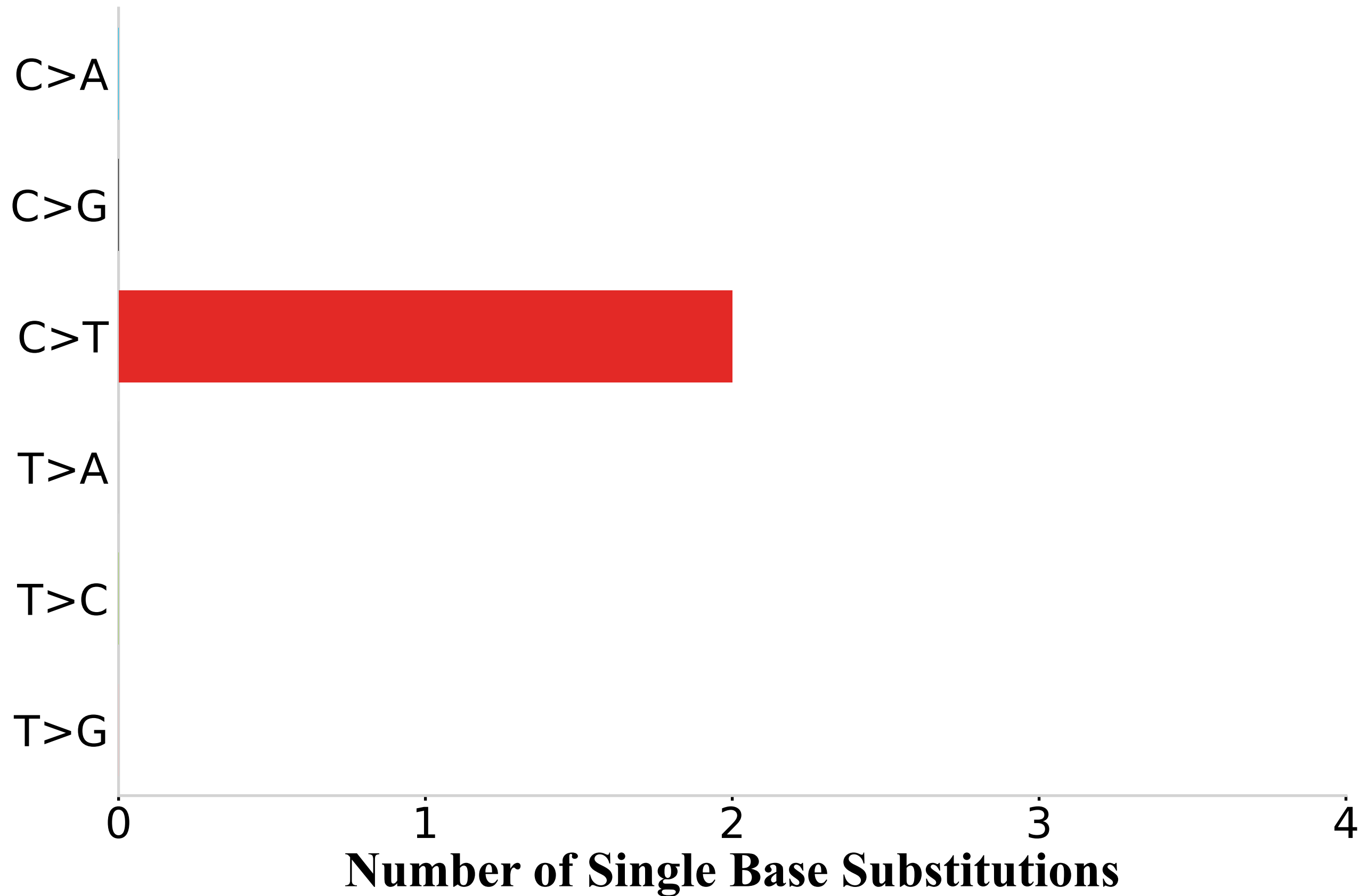
P-0031347-T01-IM6: 1 subs



P-0031438-T01-IM6: 2 subs



P-0031617-T01-IM6: 2 subs



P-0031758-T01-IM6: 0 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

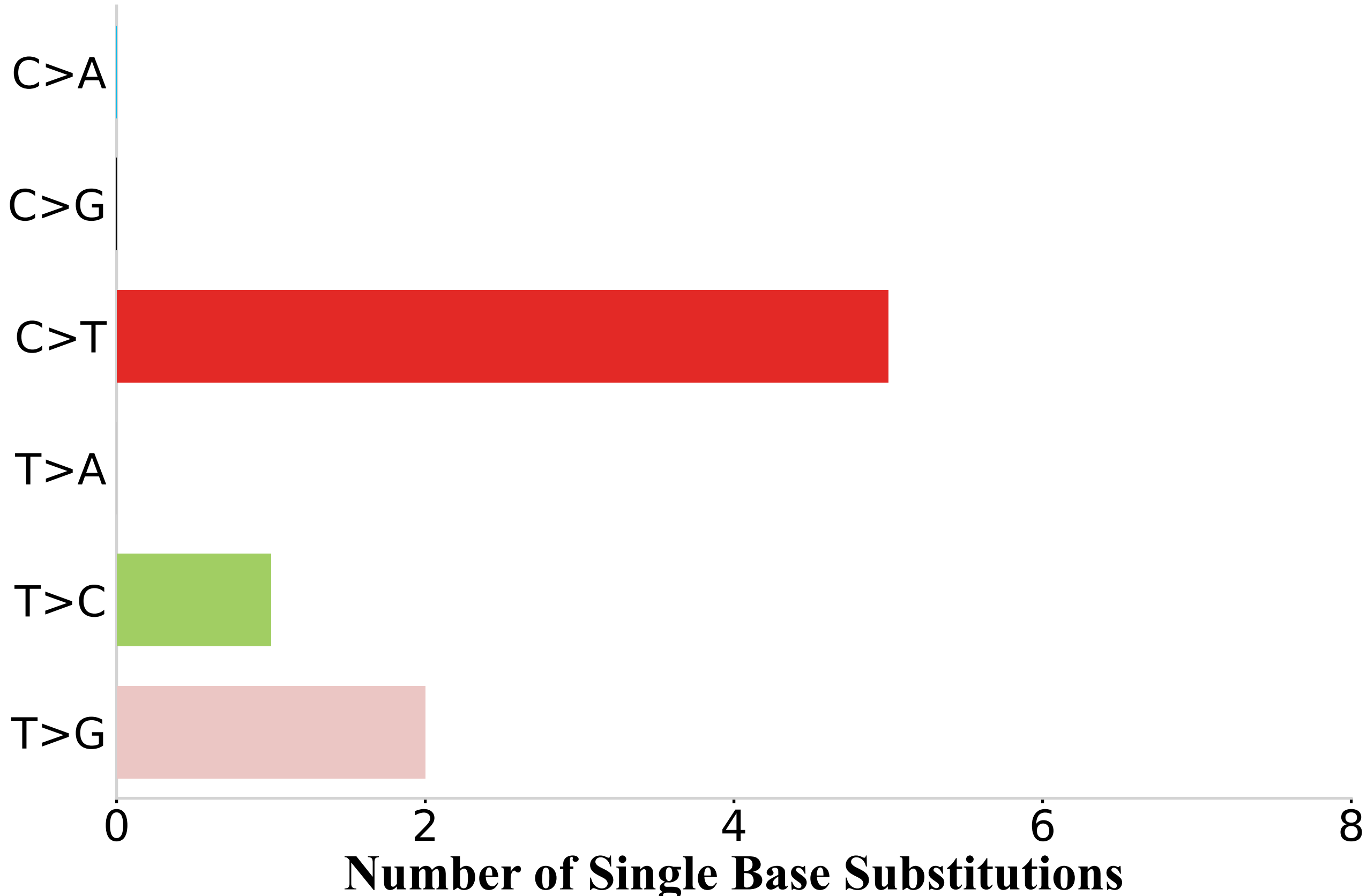
Number of Single Base Substitutions



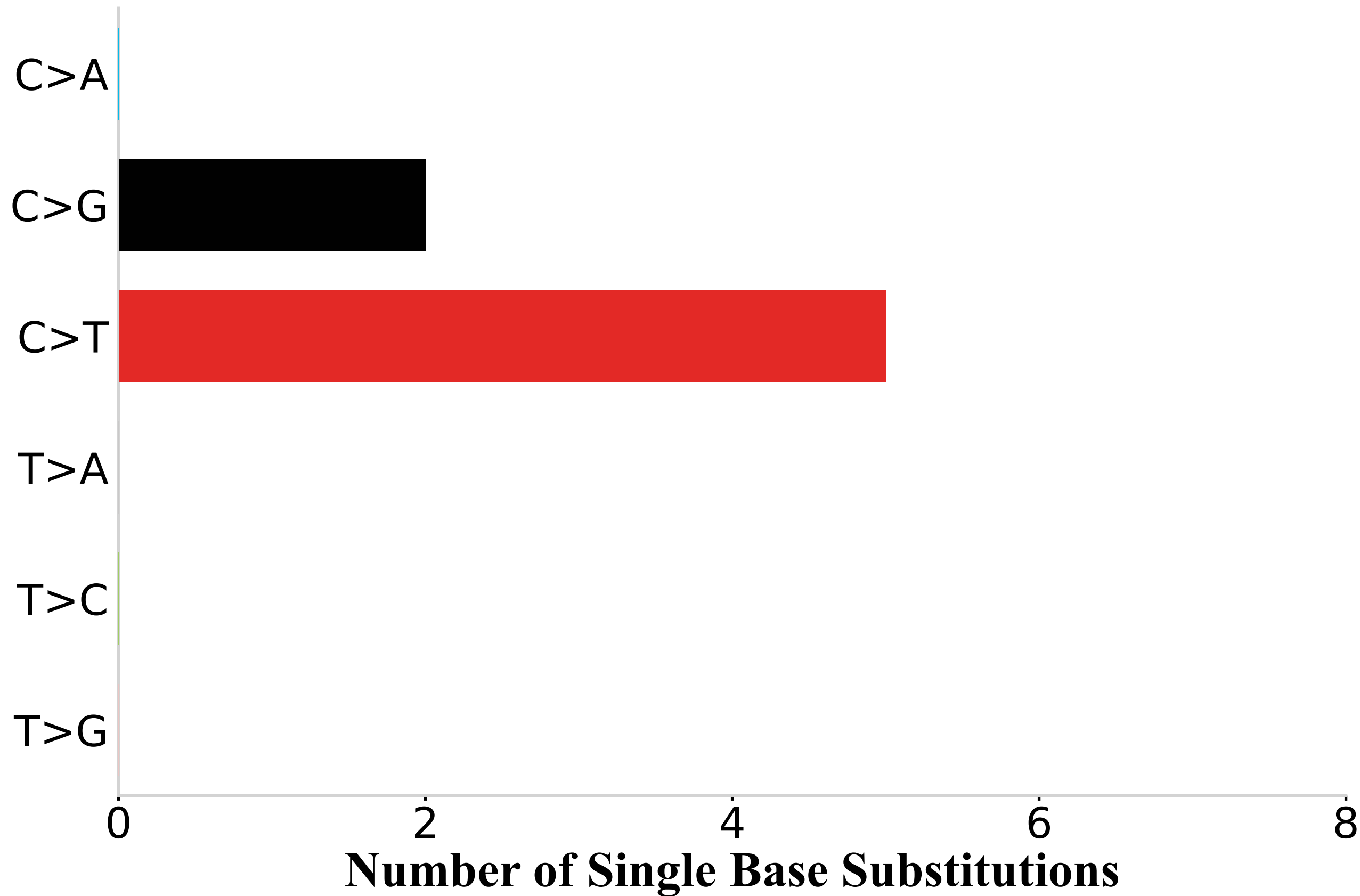
P-0031800-T01-IM6: 1 subs



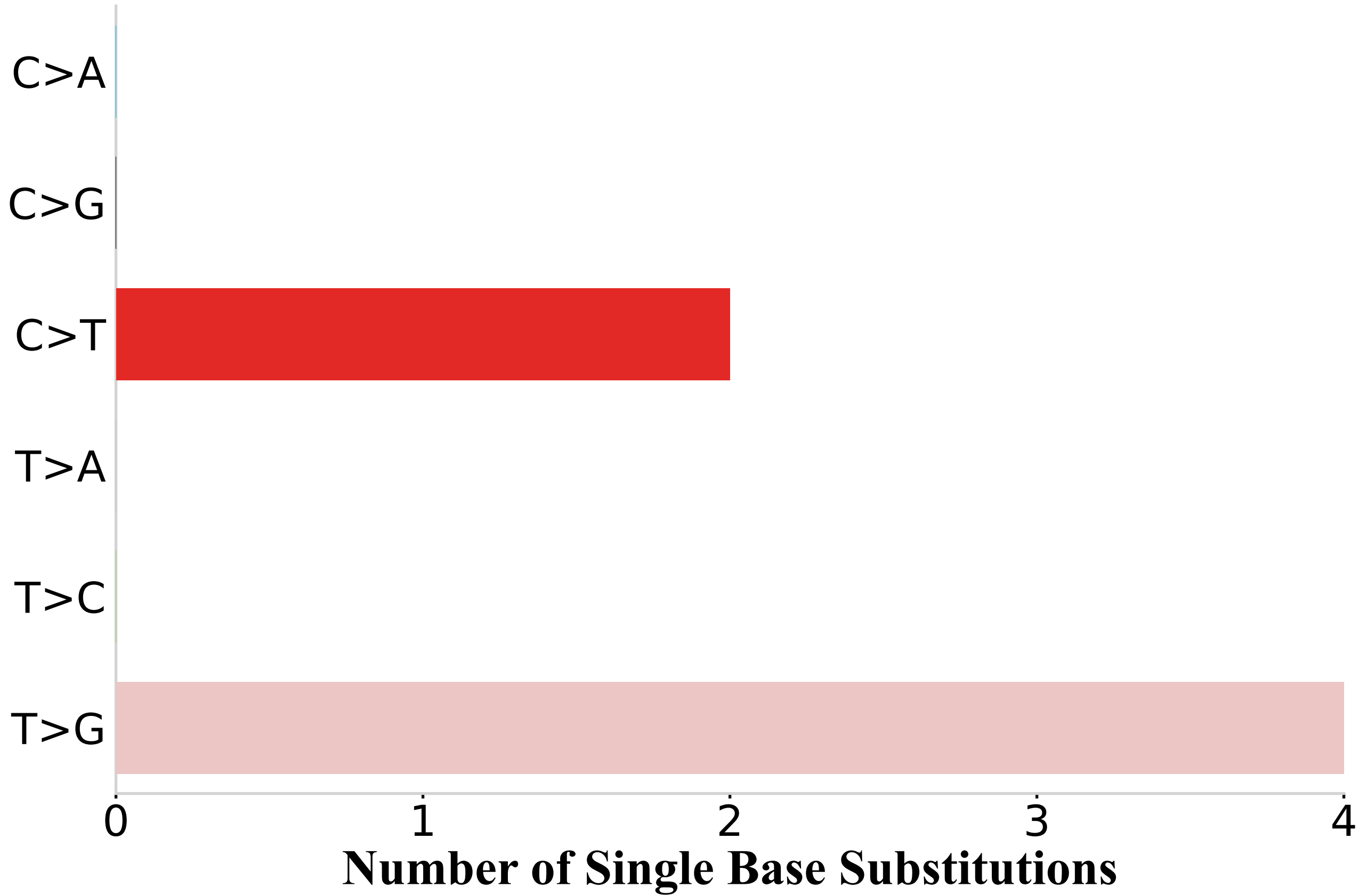
P-0031866-T01-IM6: 8 subs



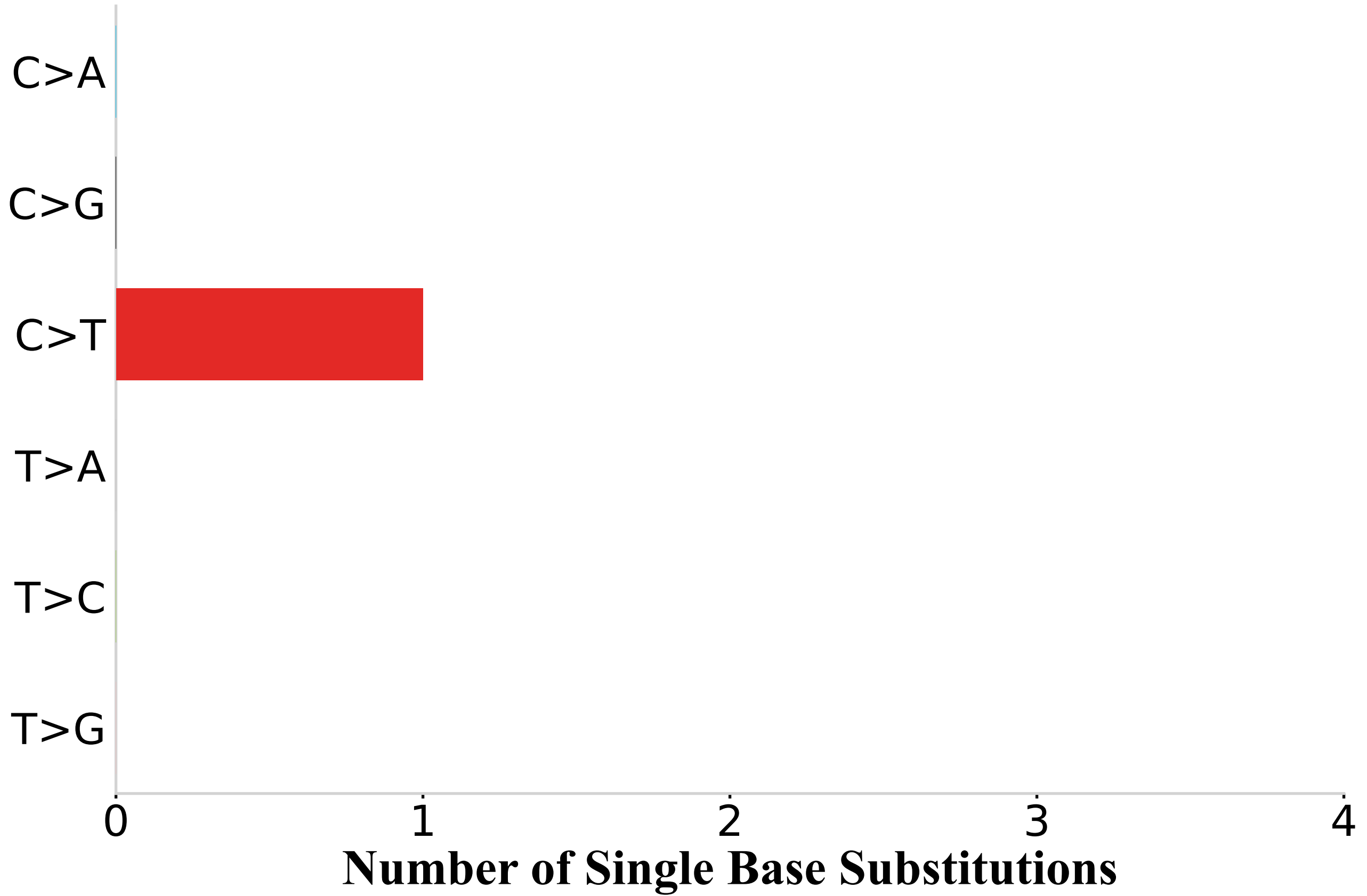
P-0031925-T01-IM6: 7 subs



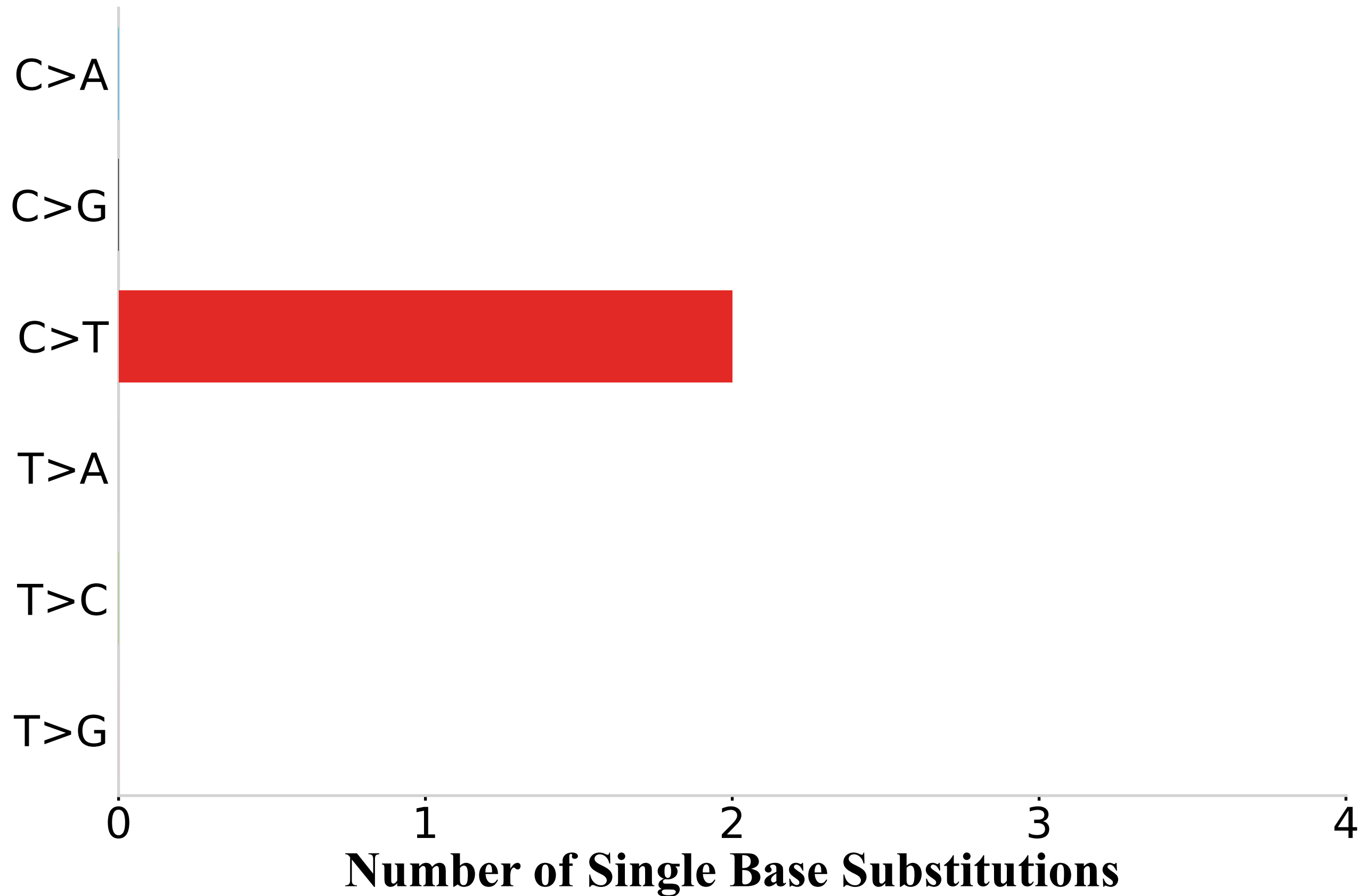
P-0031955-T02-IM6: 6 subs



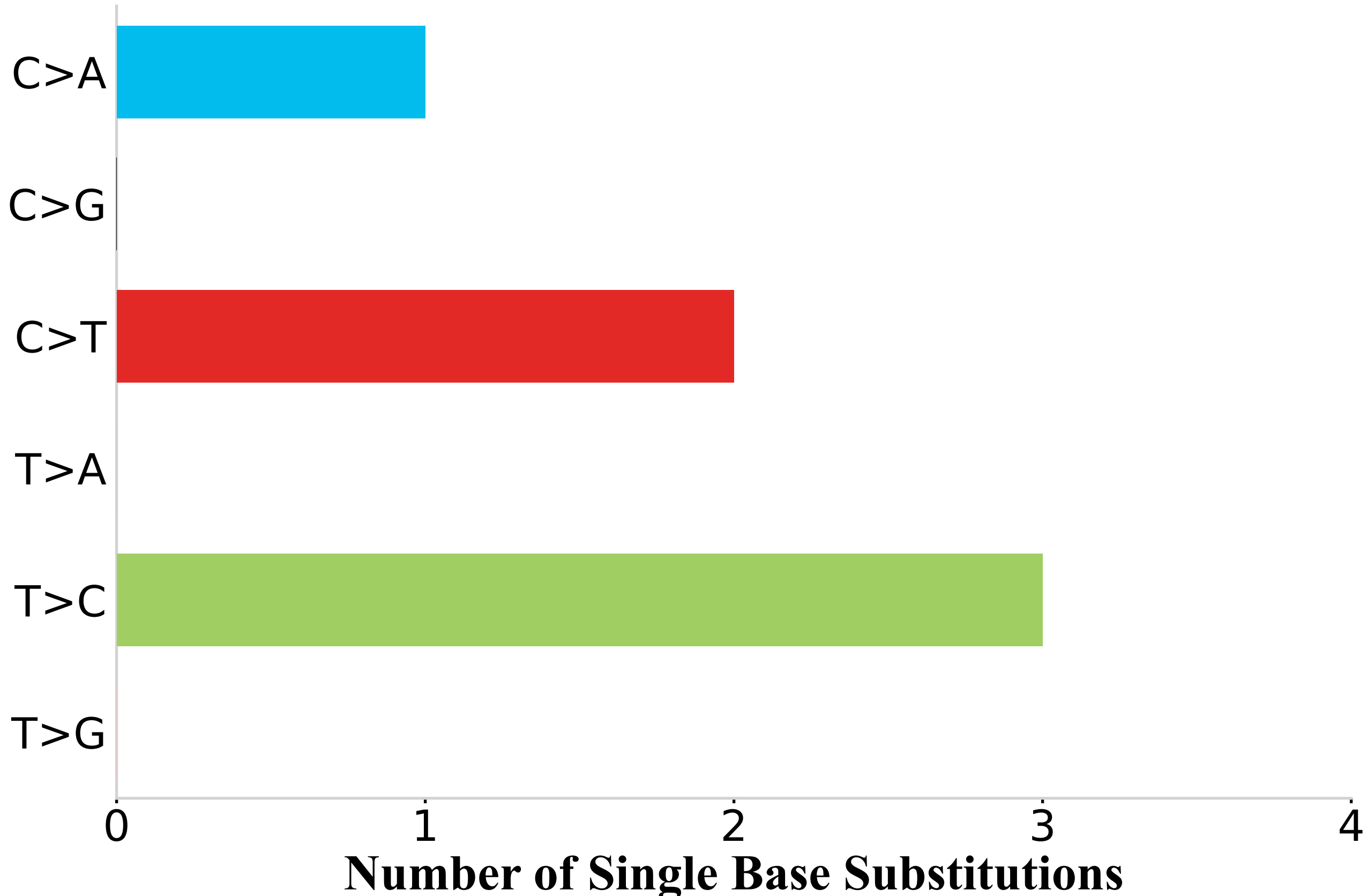
P-0031963-T01-IM6: 1 subs



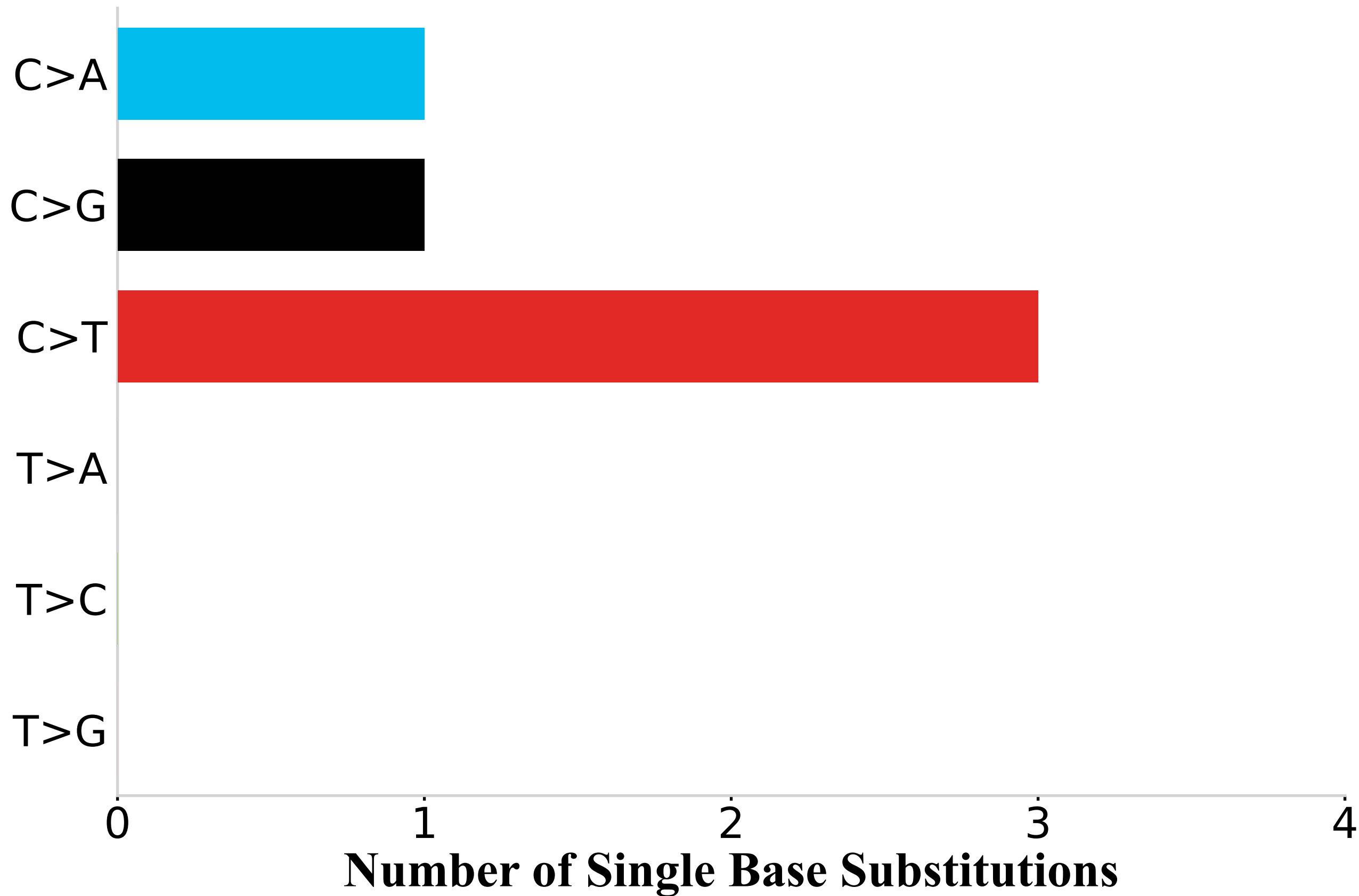
P-0032237-T01-IM6: 2 subs



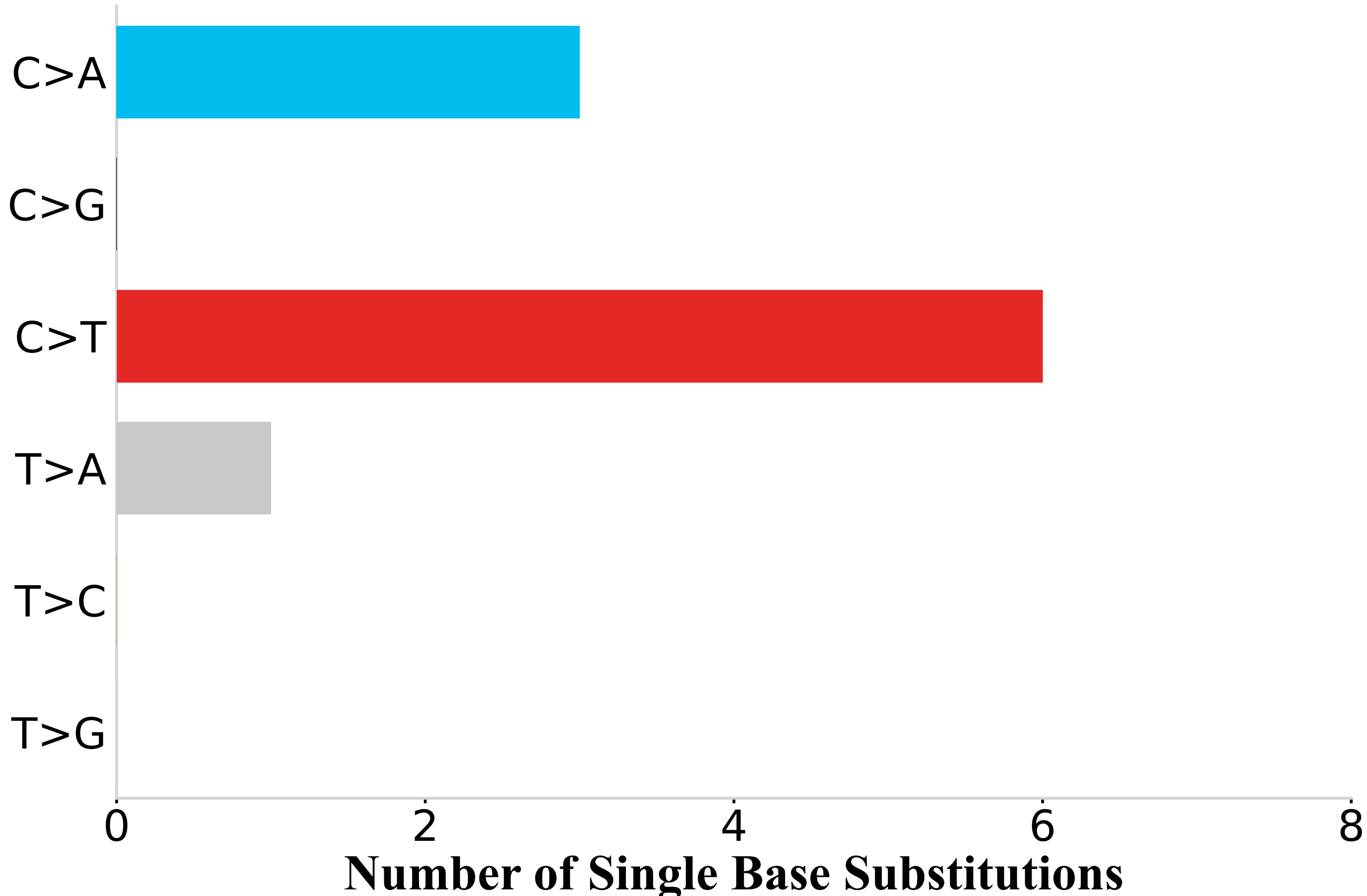
P-0032275-T01-IM6: 6 subs



P-0032393-T01-IM6: 5 subs



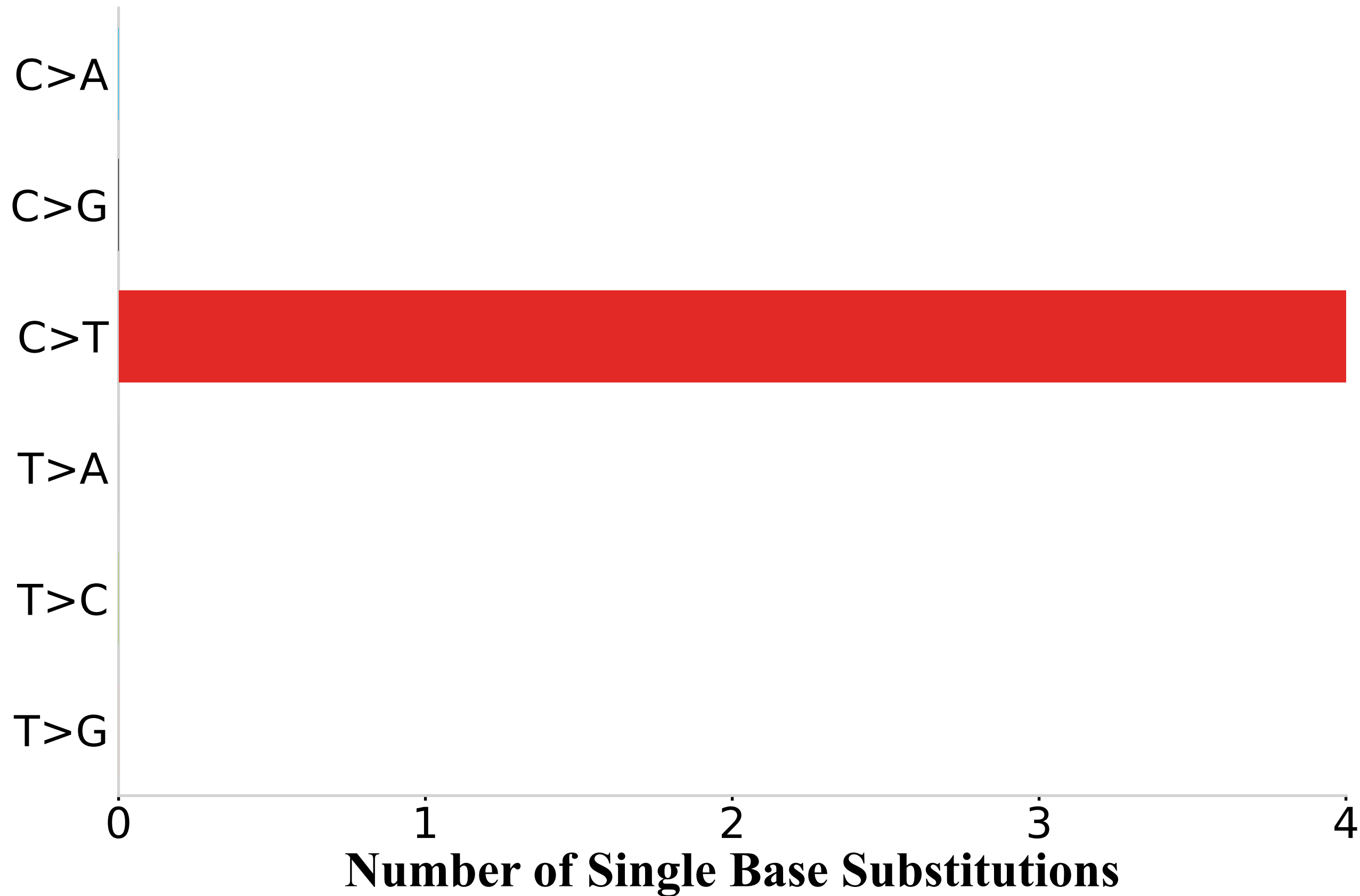
P-0032494-T01-IM6: 10 subs



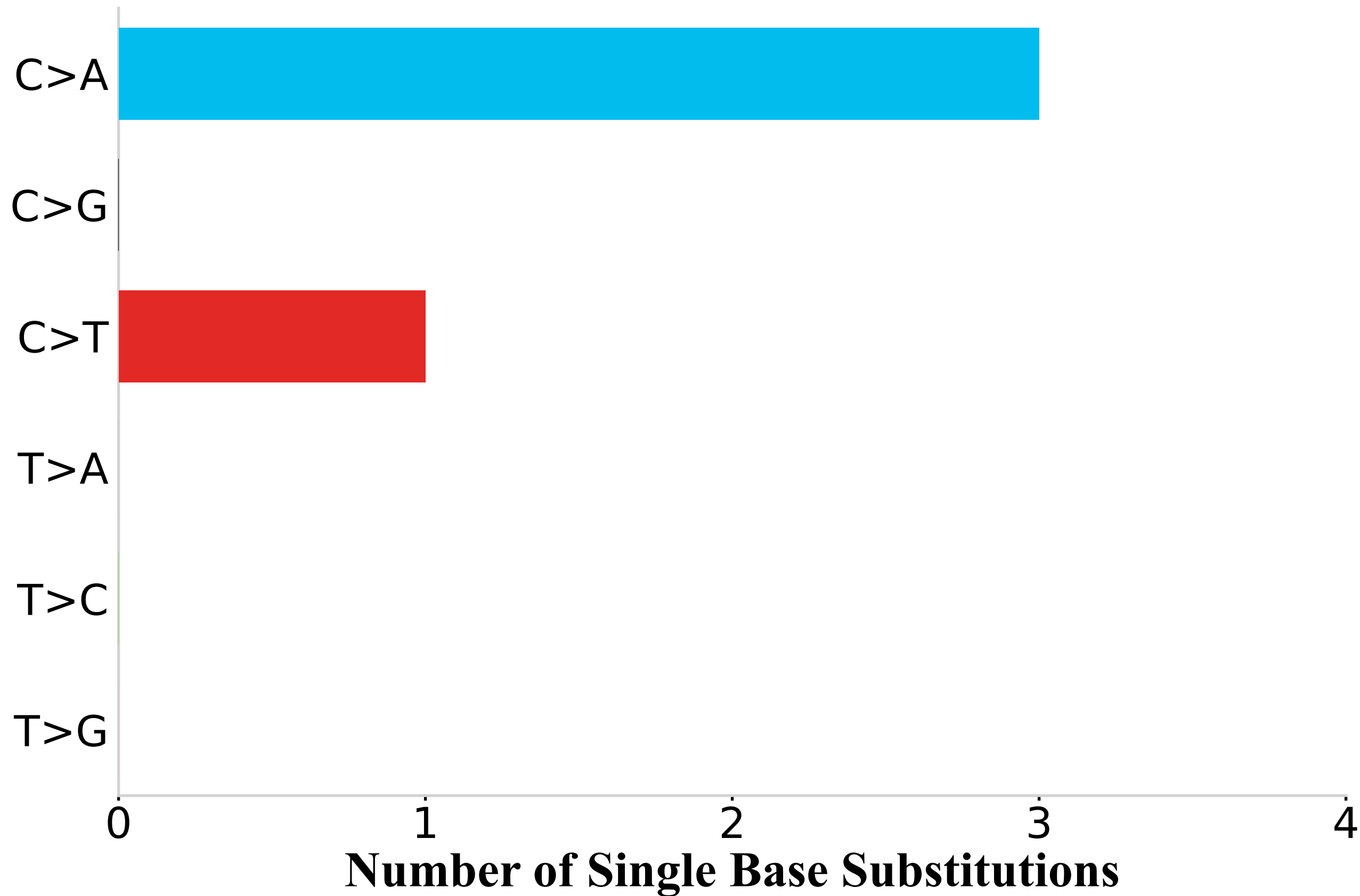
P-0032592-T01-IM6: 2 subs



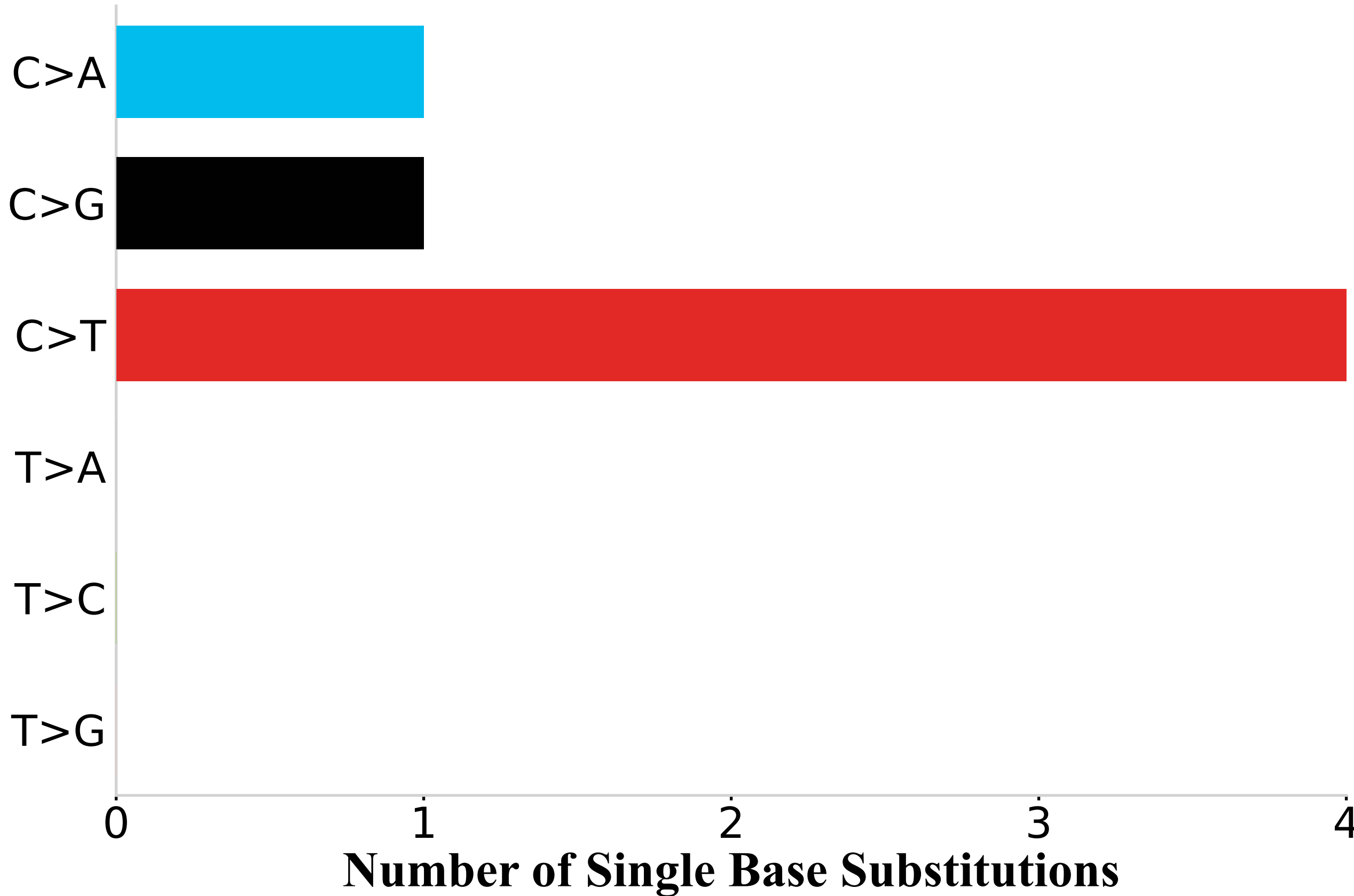
P-0032599-T01-IM6: 4 subs



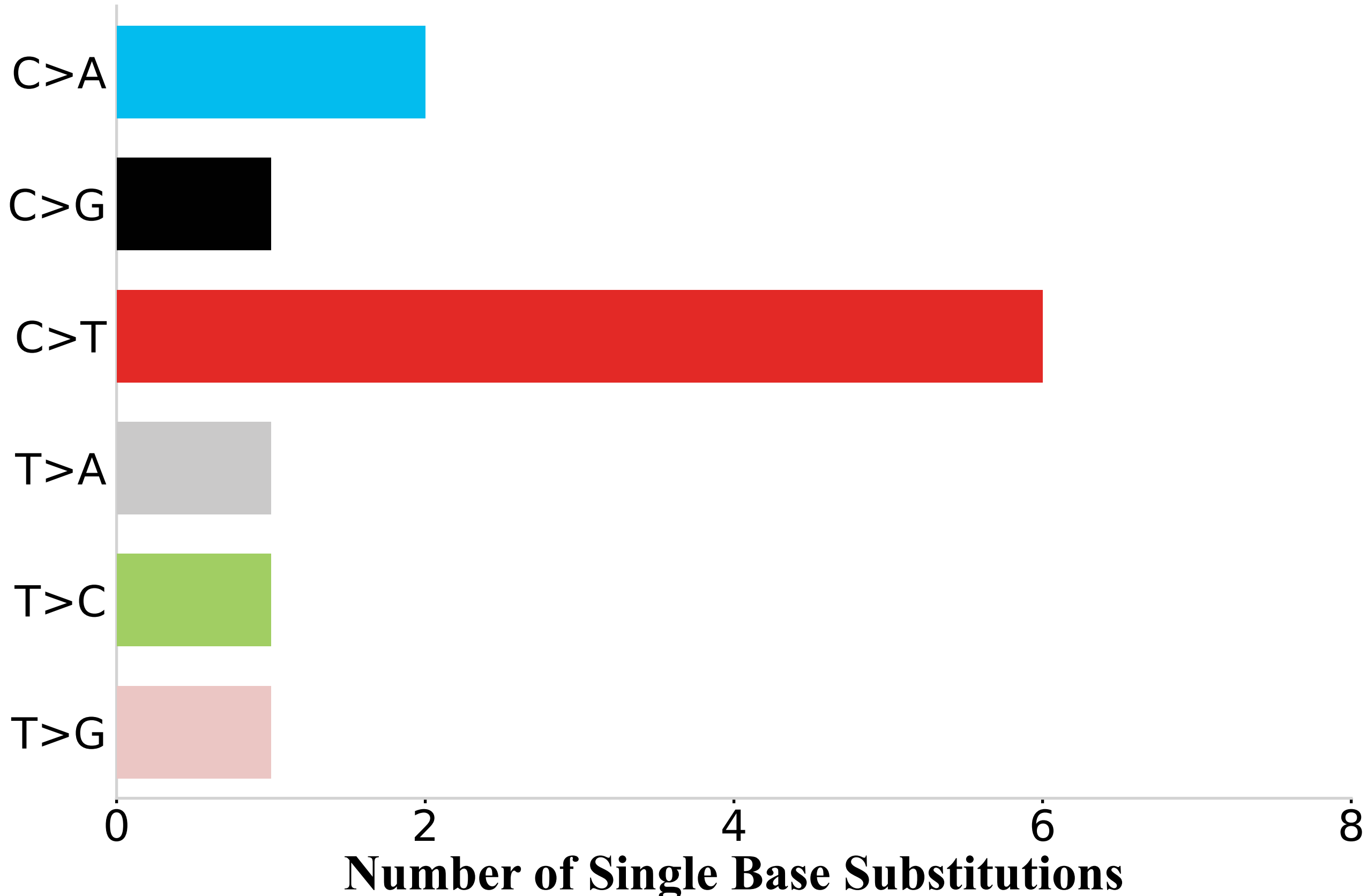
P-0032604-T01-IM6: 4 subs



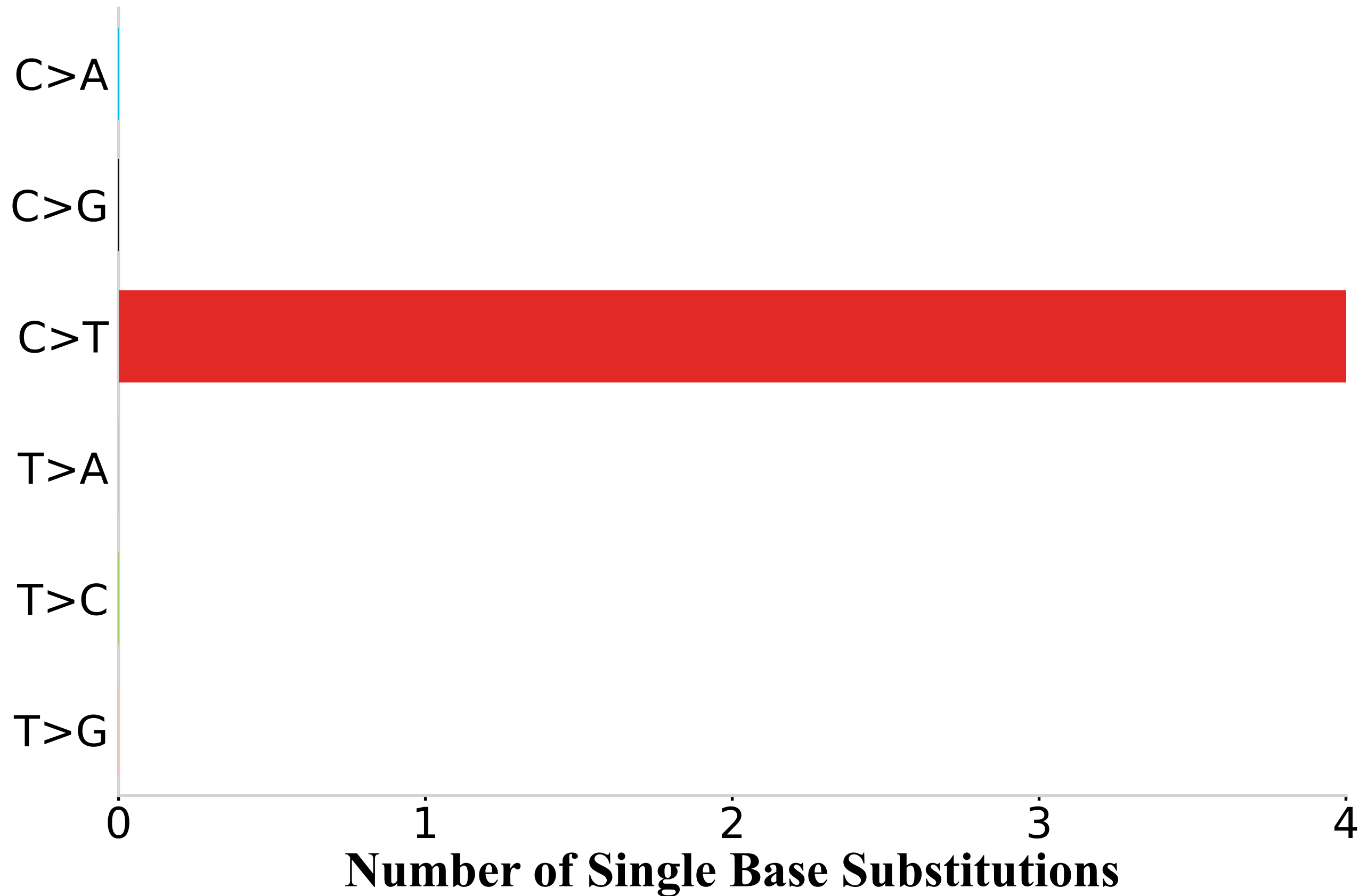
P-0032628-T01-IM6: 6 subs



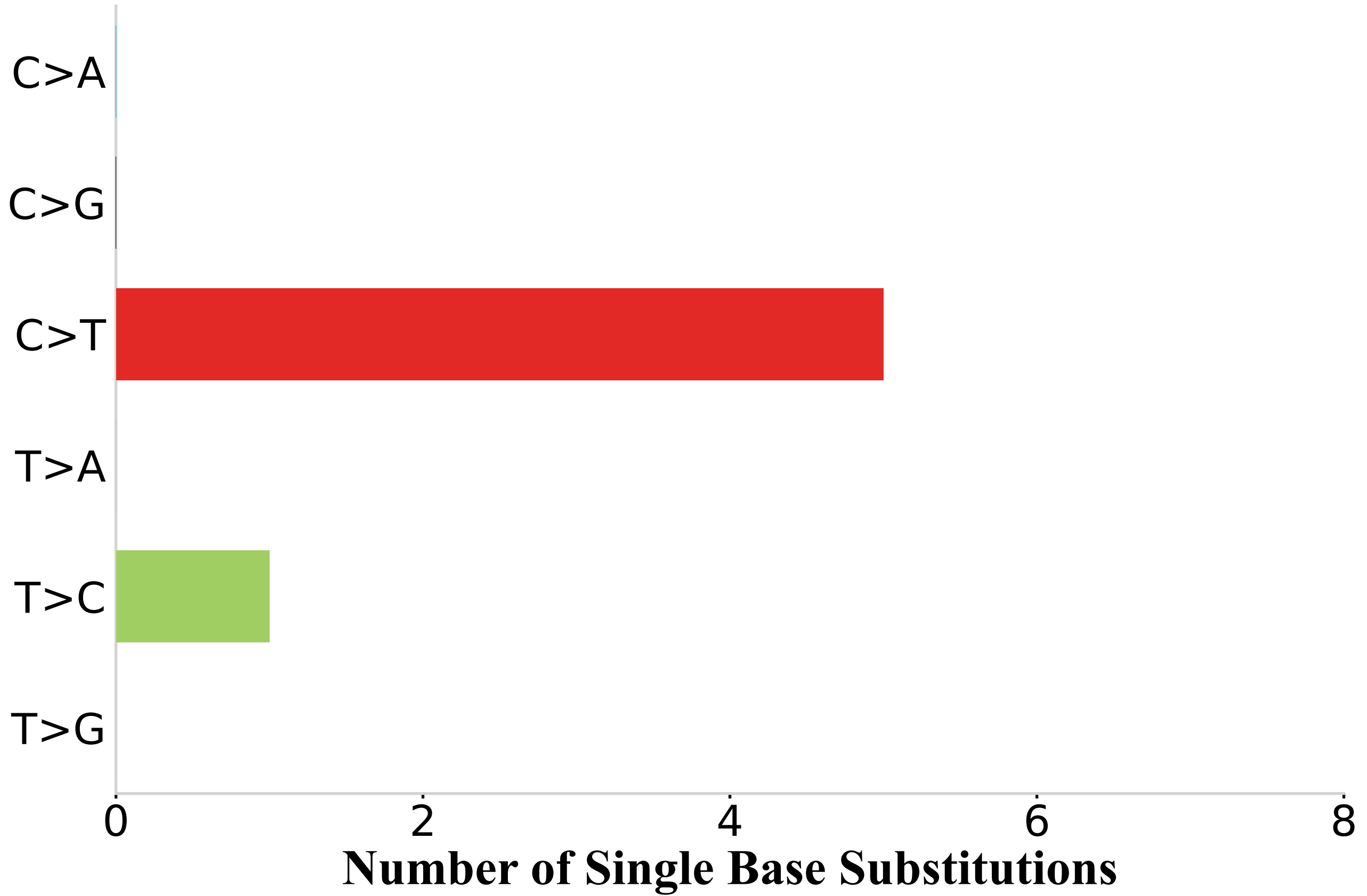
P-0032640-T01-IM6: 12 subs



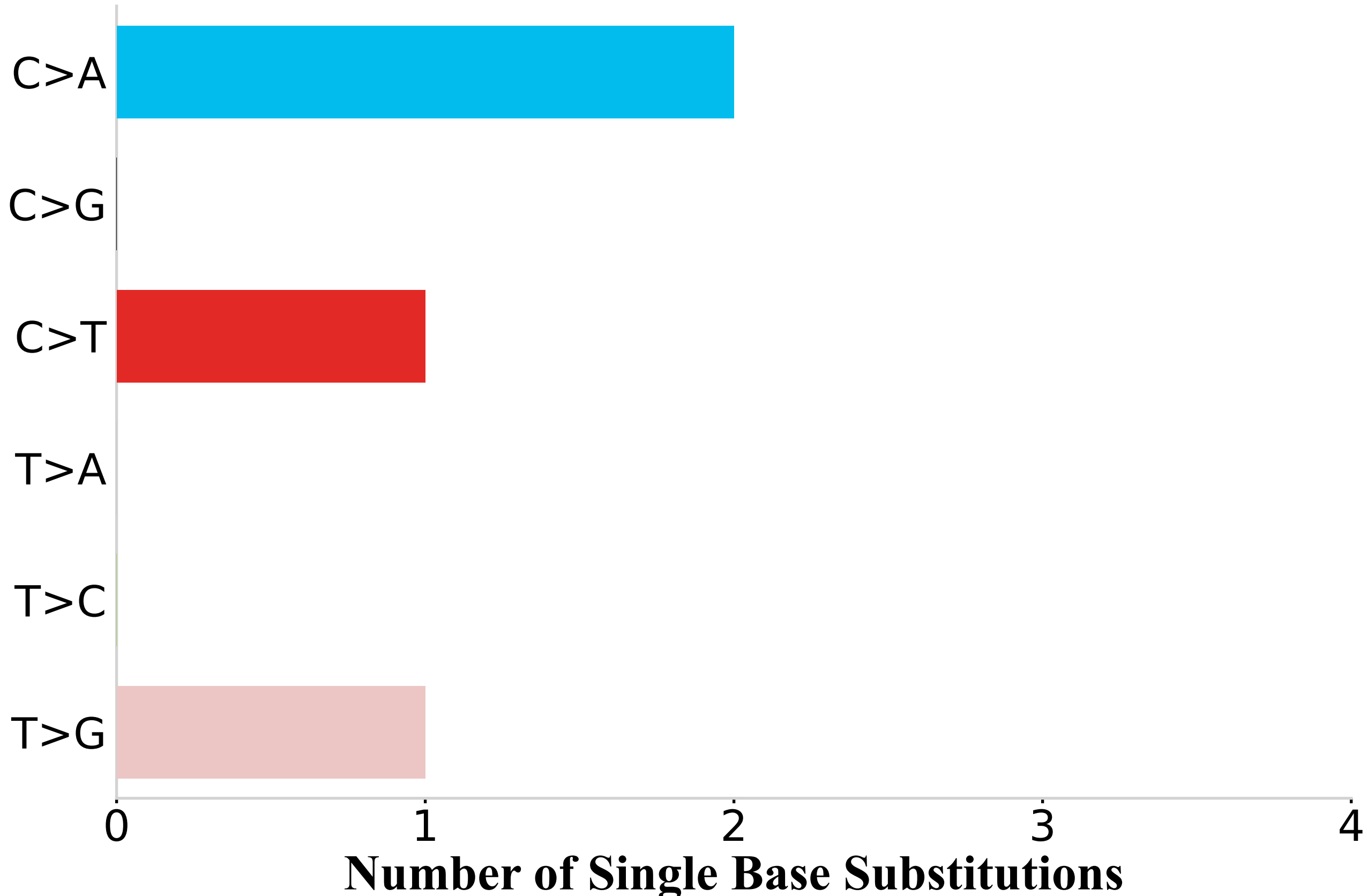
P-0032642-T01-IM6: 4 subs



P-0032678-T01-IM6: 6 subs



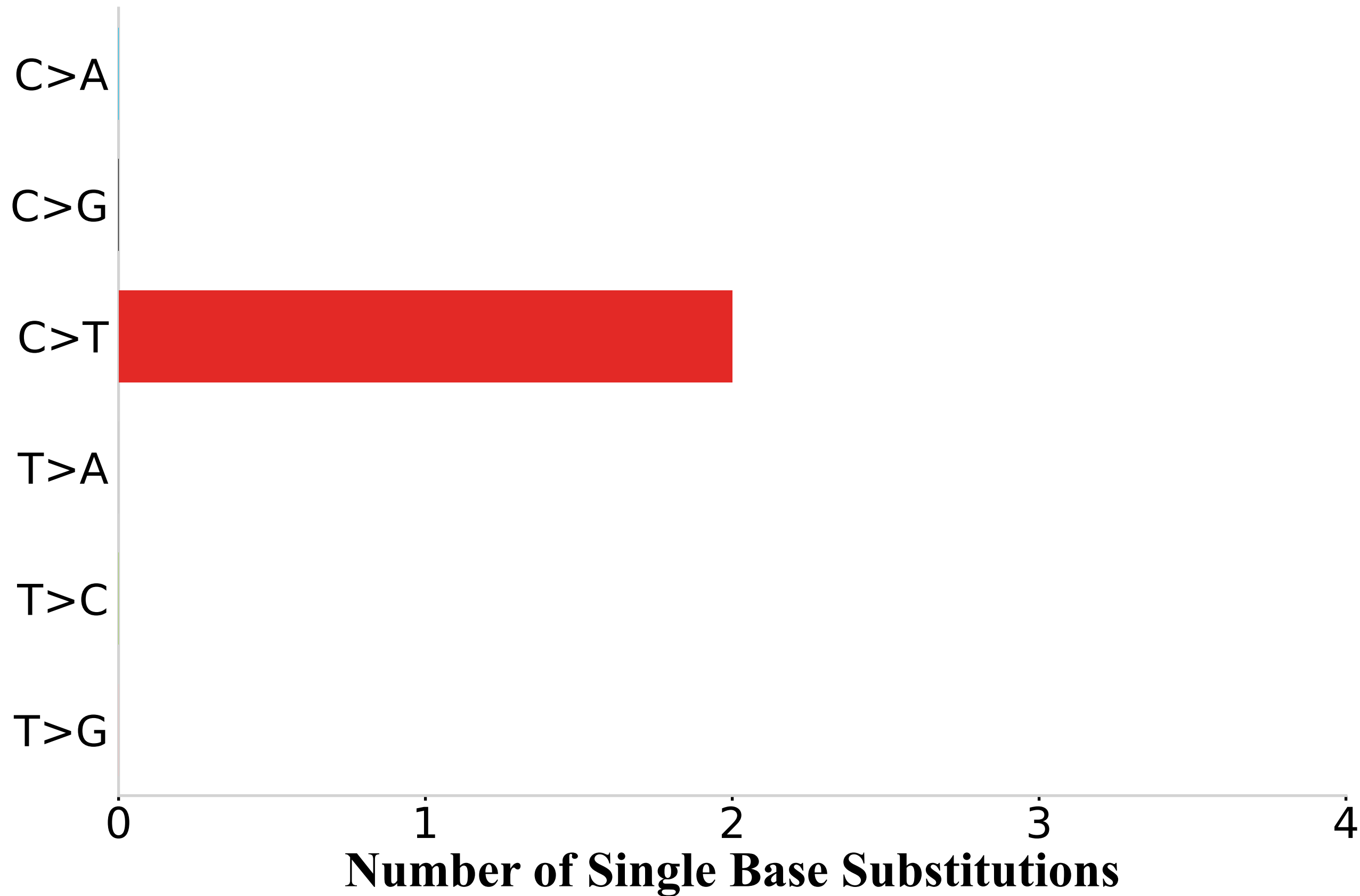
P-0032687-T01-IM6: 4 subs



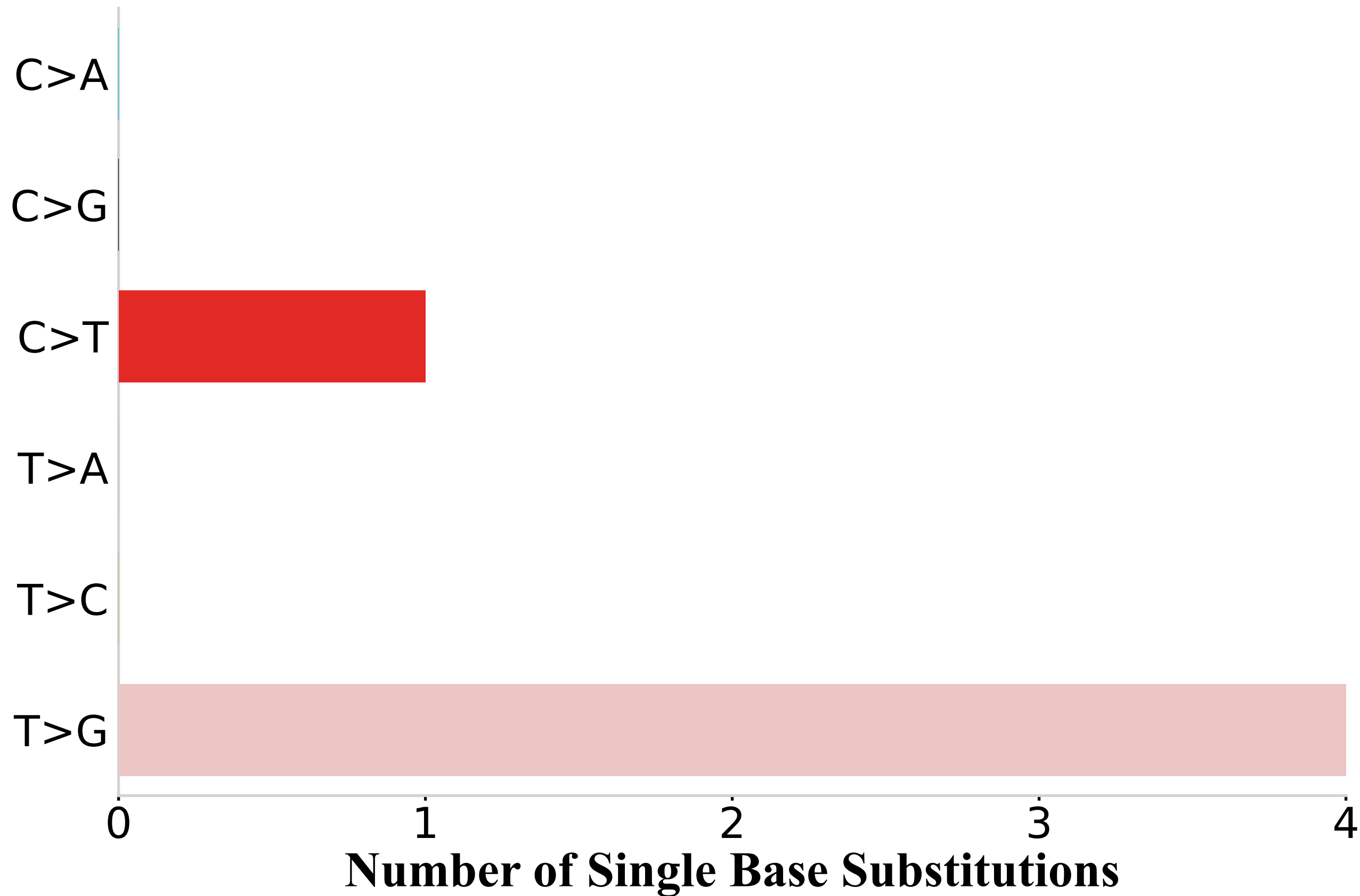
P-0032700-T01-IM6: 3 subs



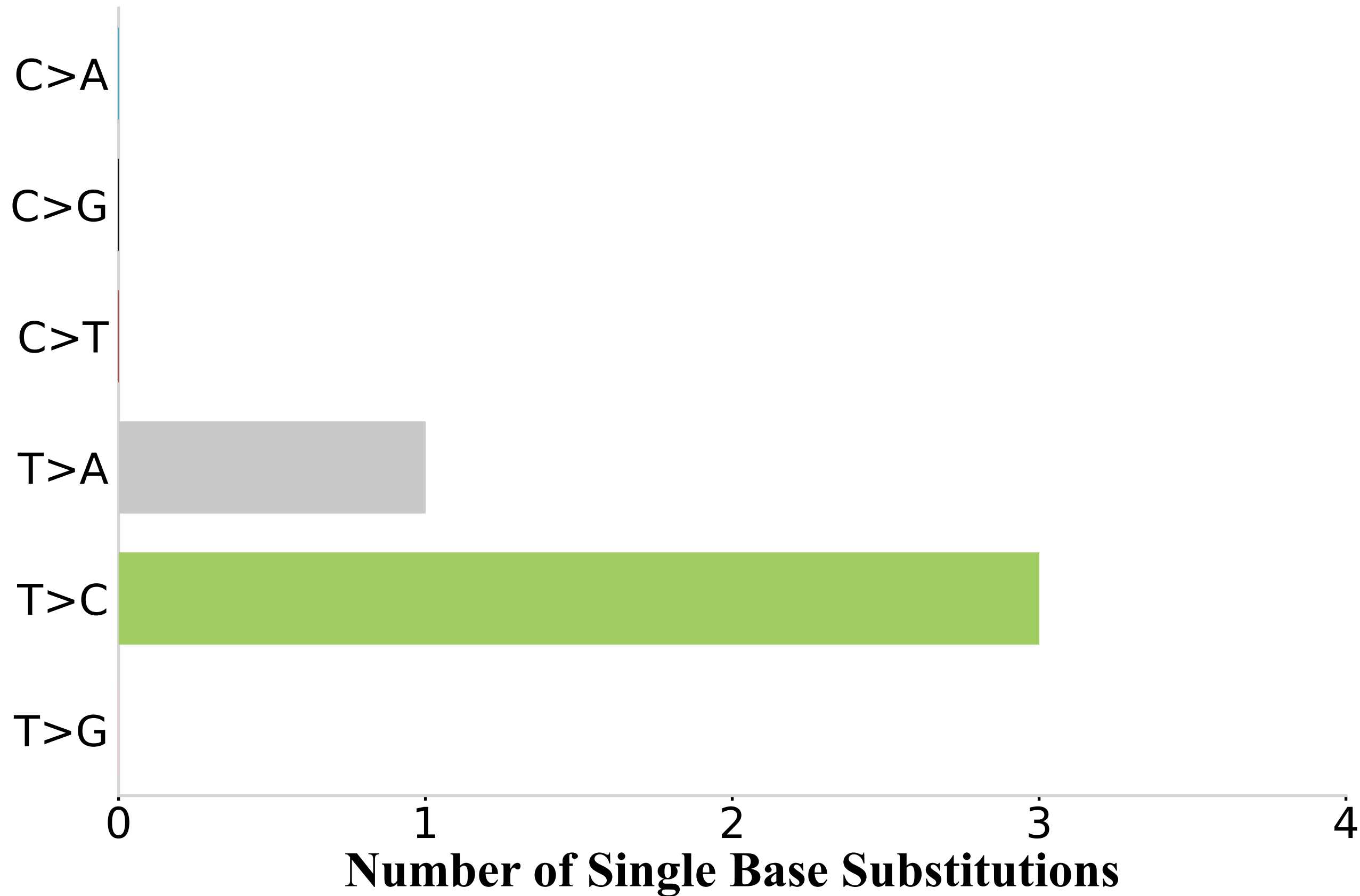
P-0032728-T01-IM6: 2 subs



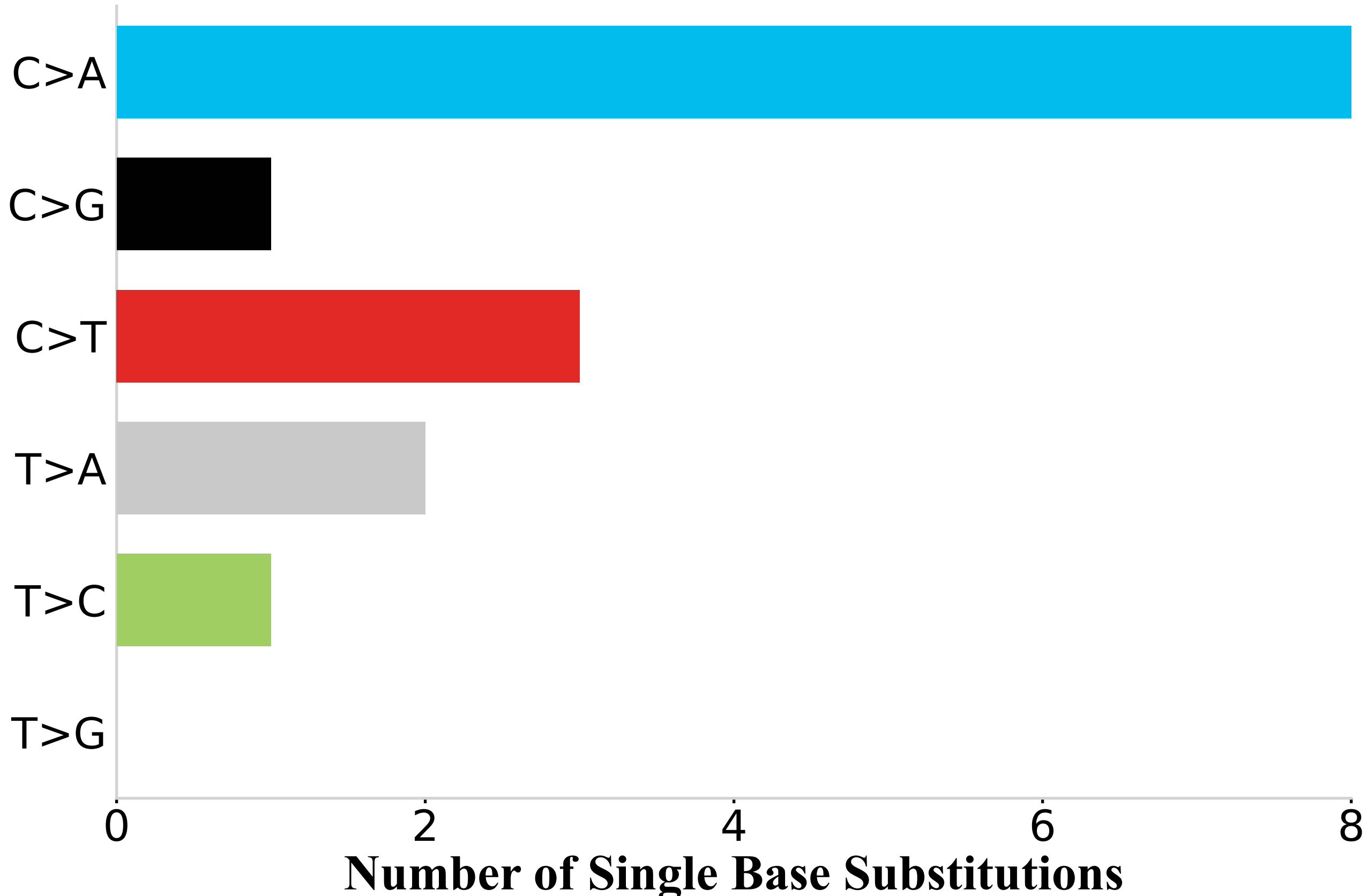
P-0032852-T01-IM6: 5 subs



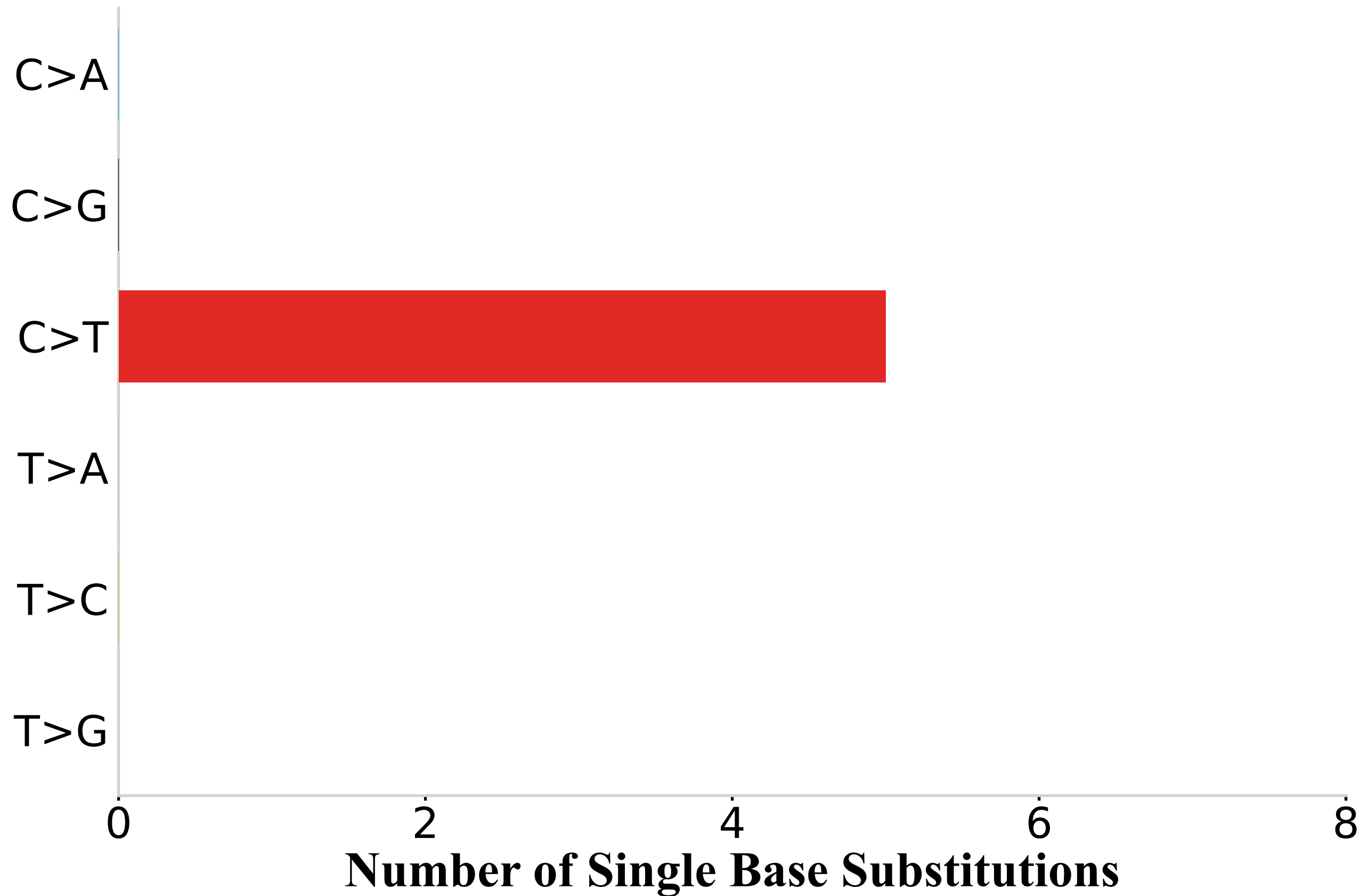
P-0033084-T01-IM6: 4 subs



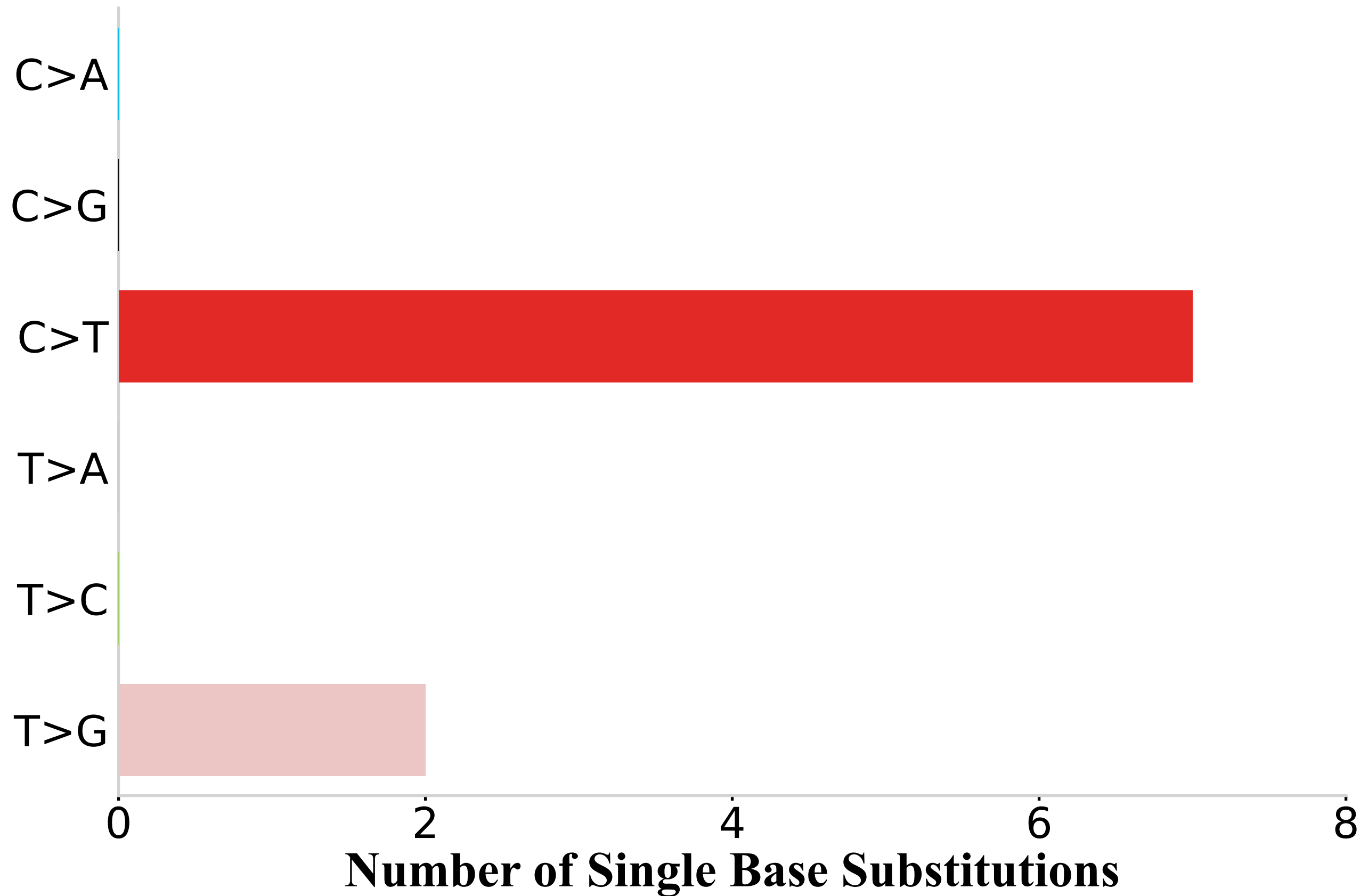
P-0033120-T01-IM6: 15 subs



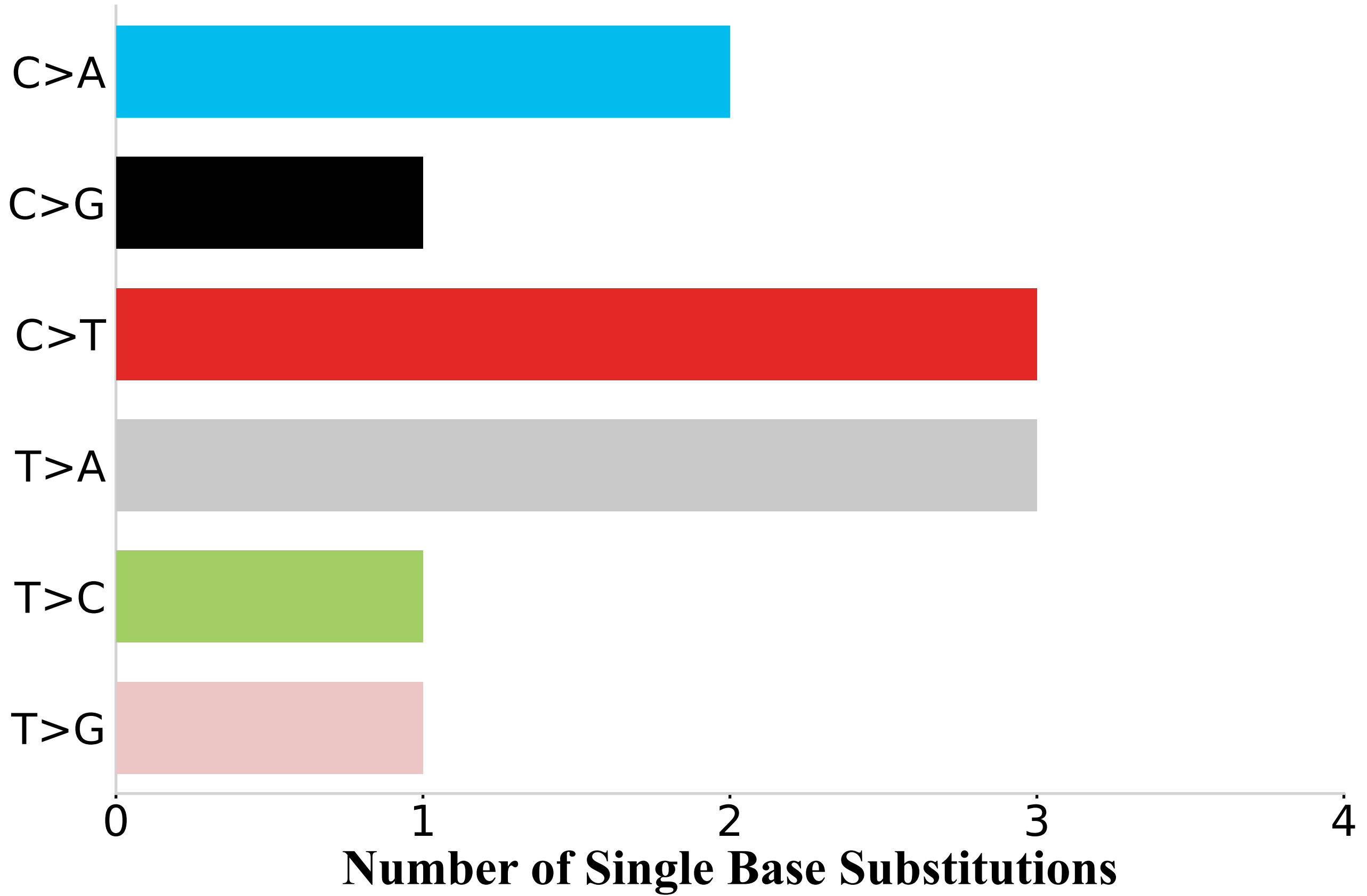
P-0033240-T01-IM6: 5 subs



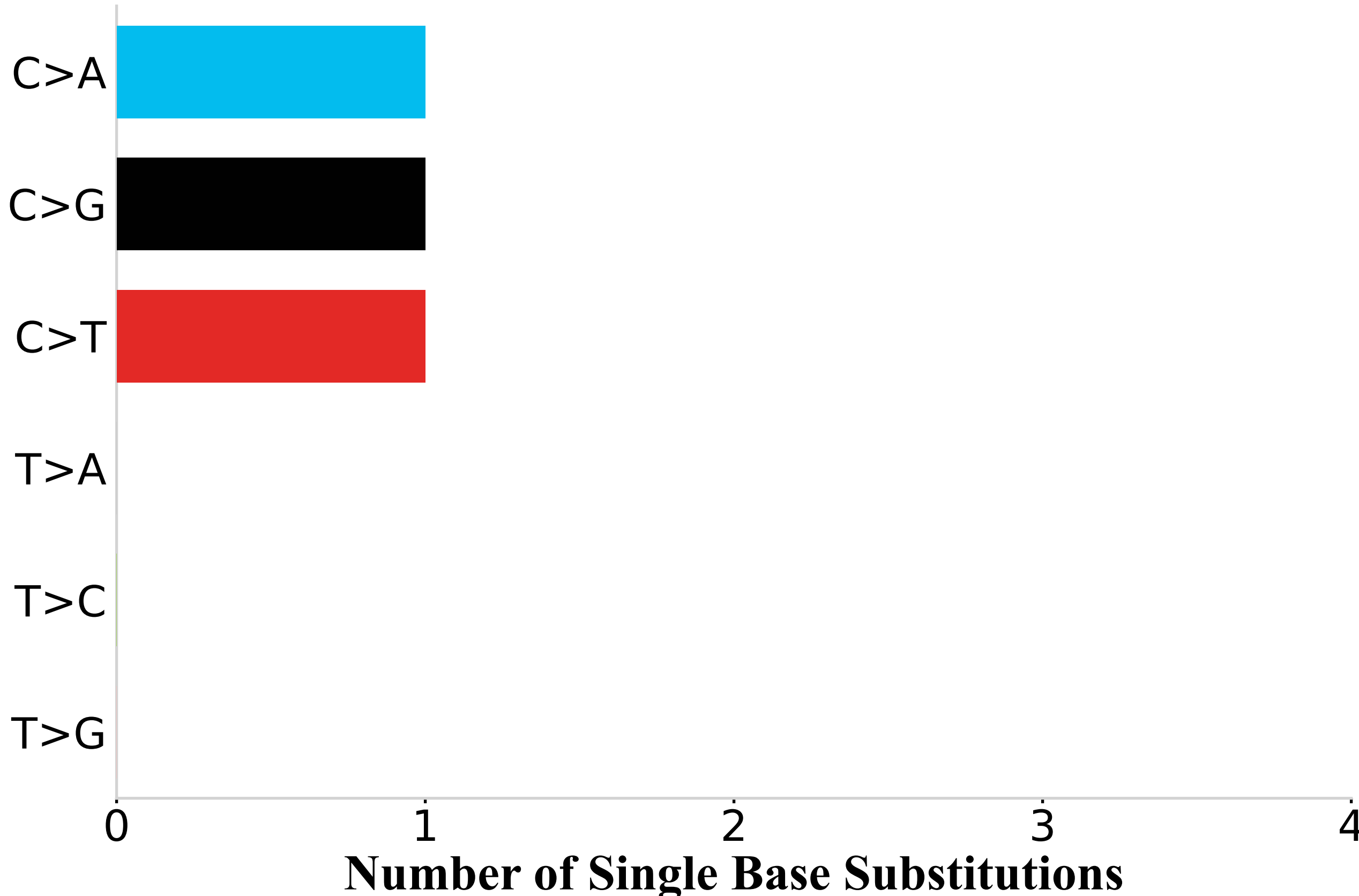
P-0033250-T01-IM6: 9 subs



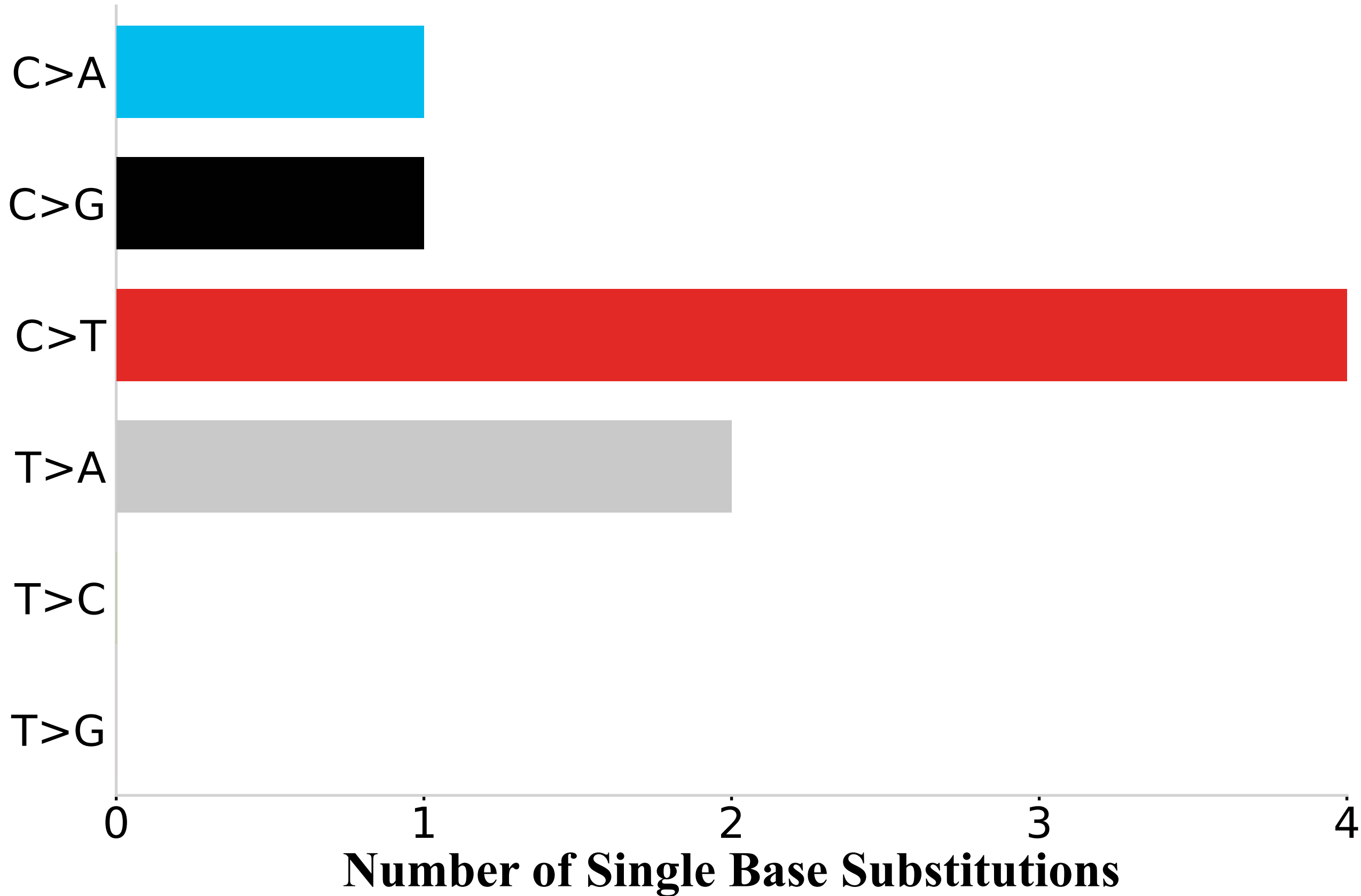
P-0033355-T01-IM6: 11 subs



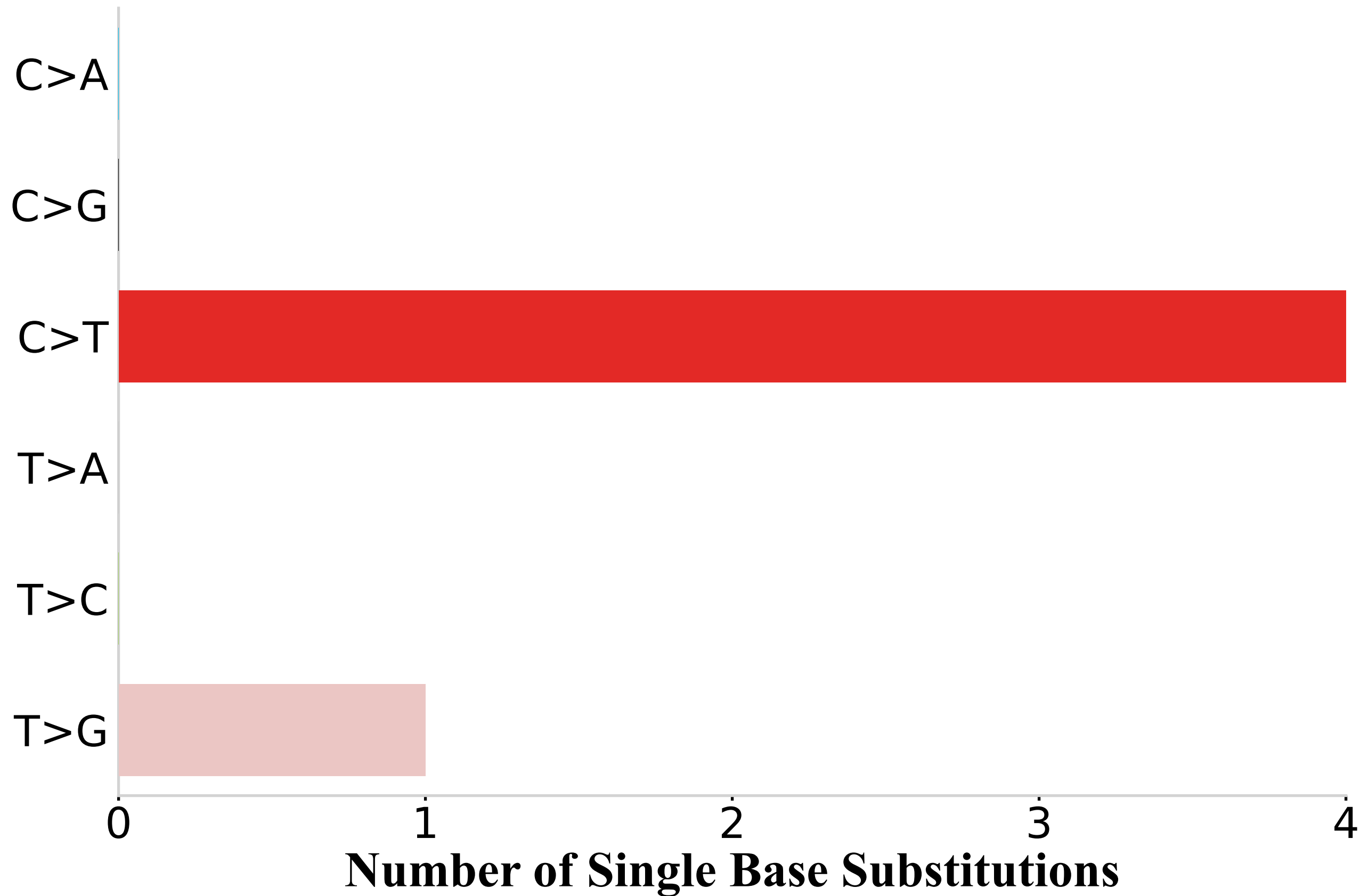
P-0033558-T01-IM6: 3 subs



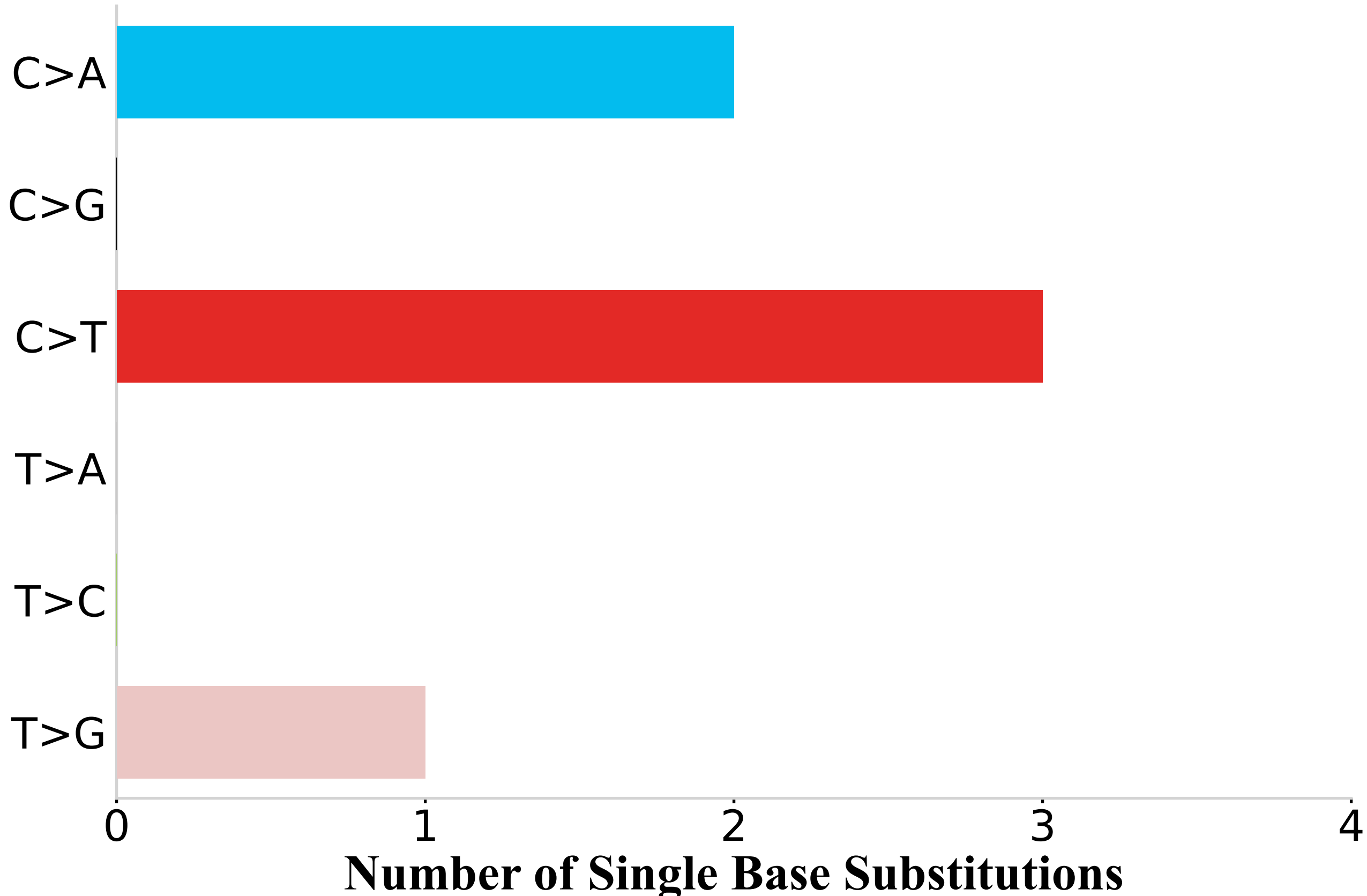
P-0033597-T01-IM6: 8 subs



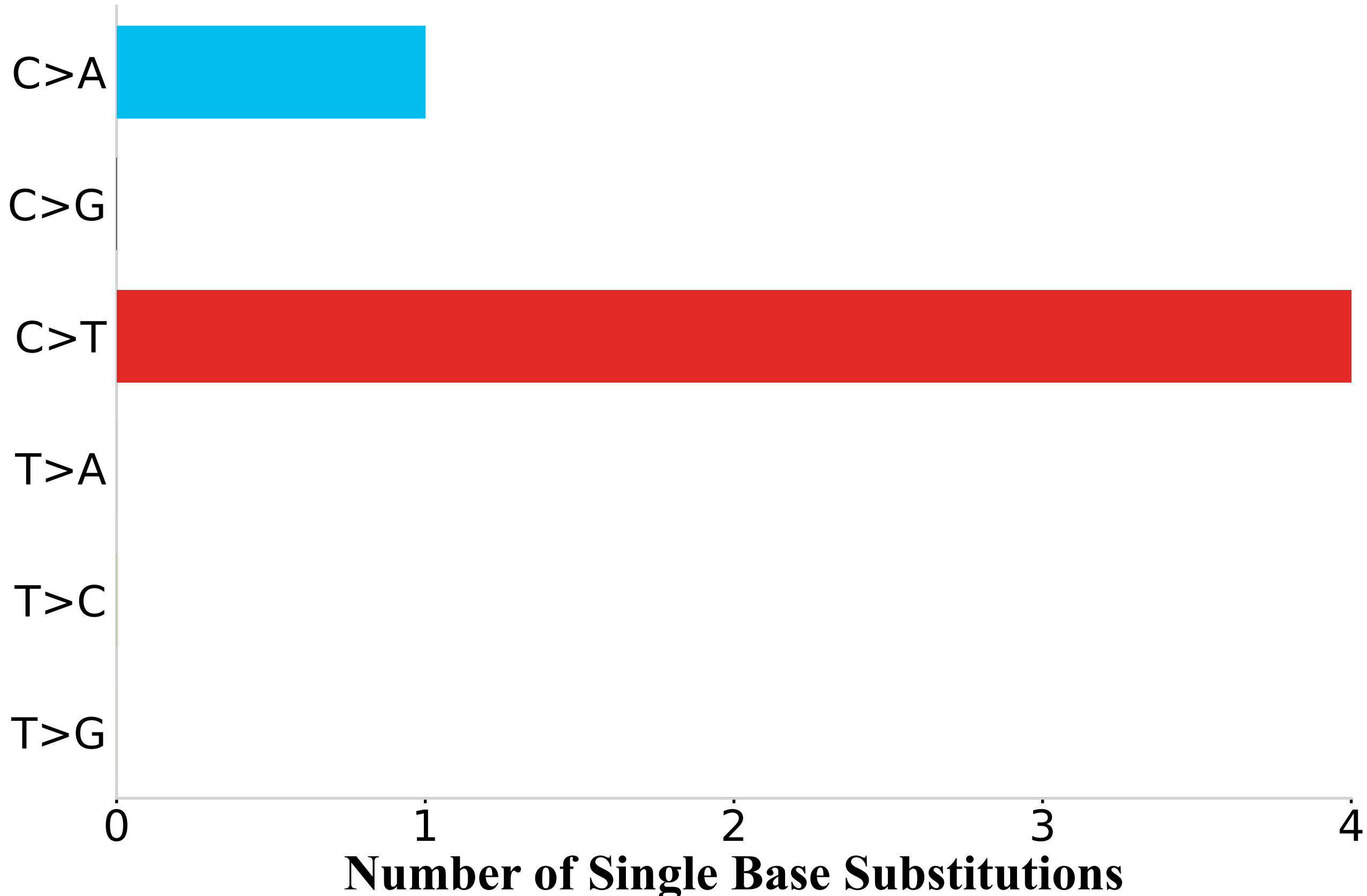
P-0033743-T01-IM6: 5 subs



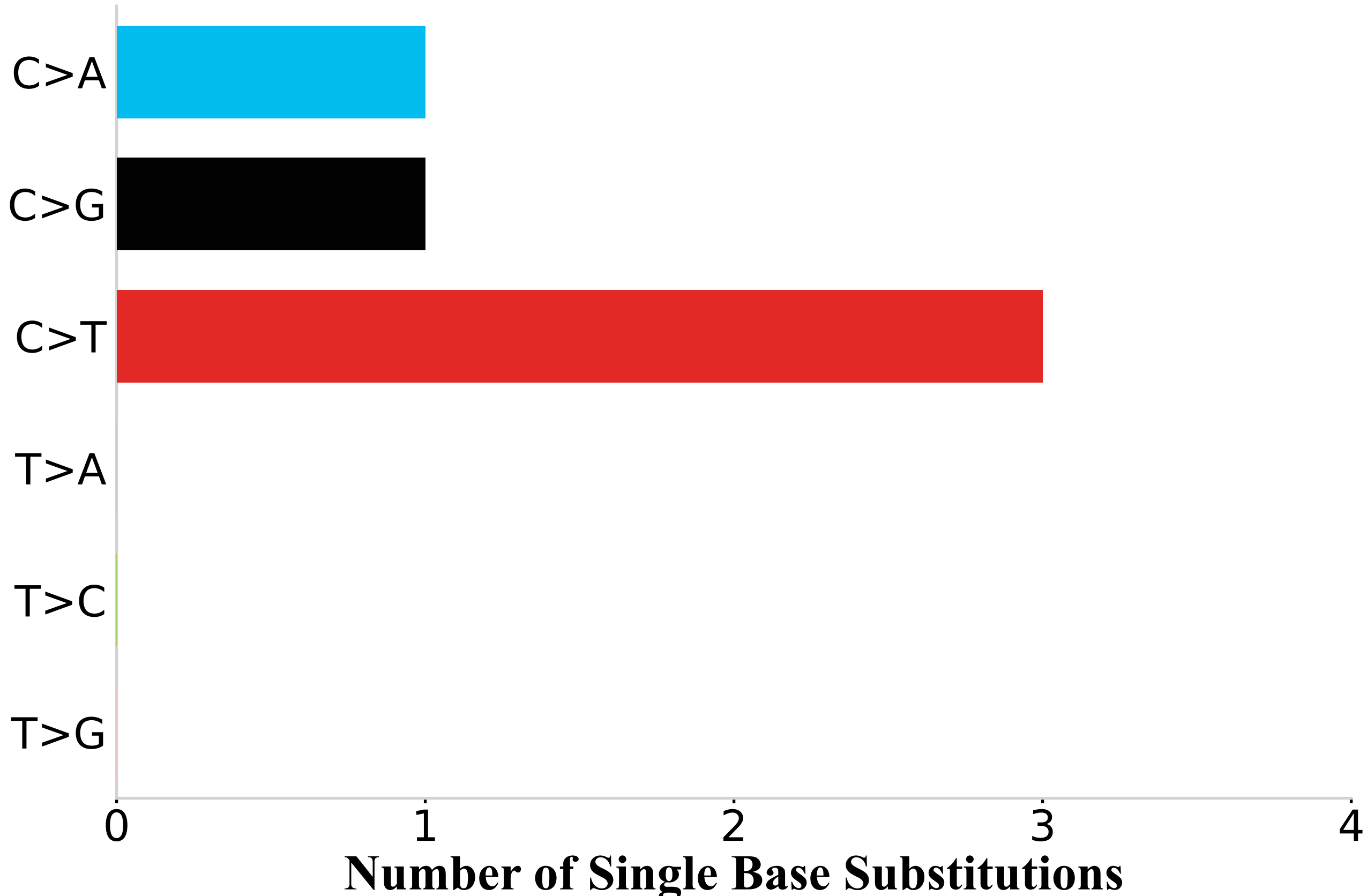
P-0033810-T01-IM6: 6 subs



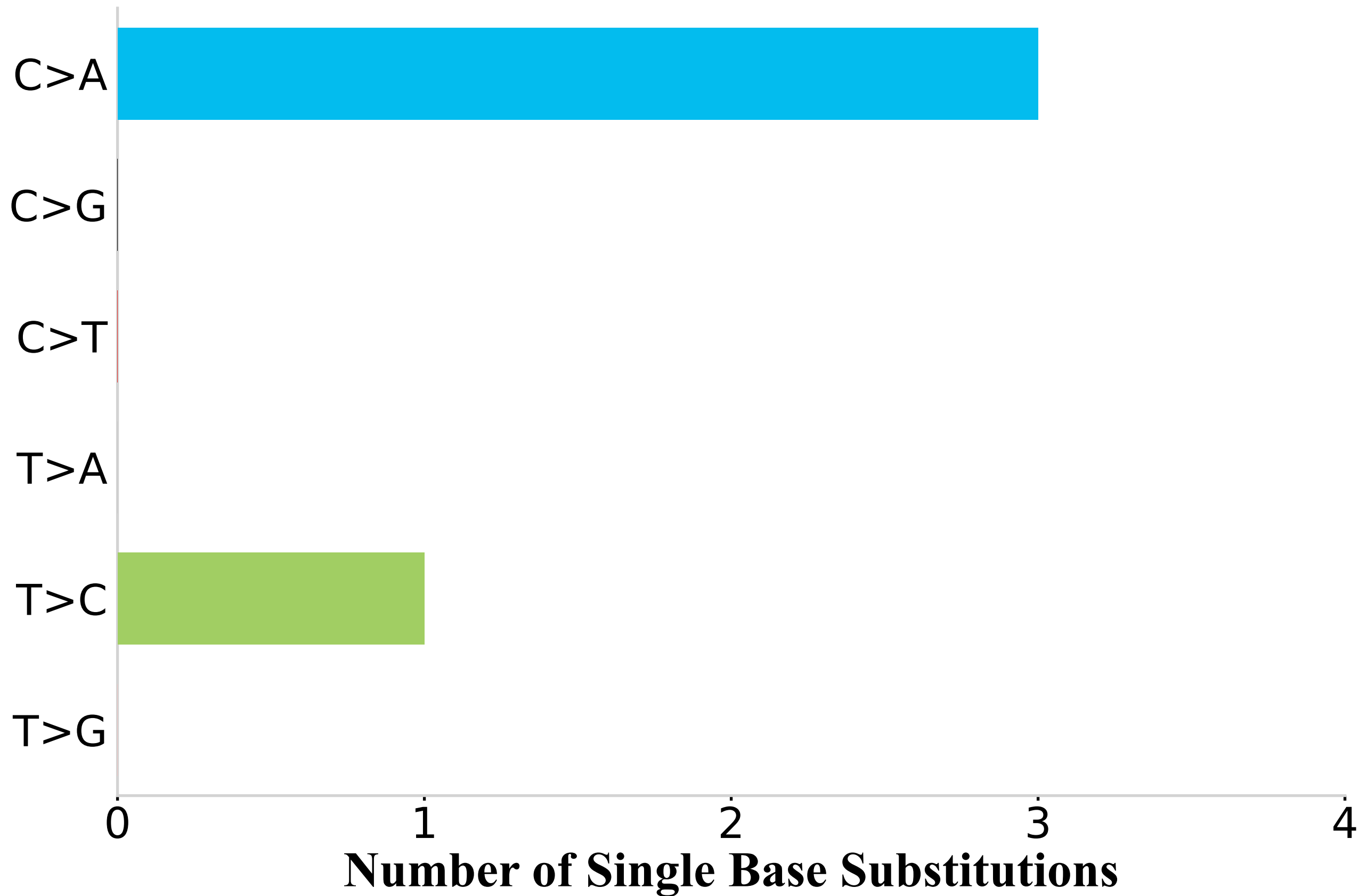
P-0033853-T01-IM6: 5 subs



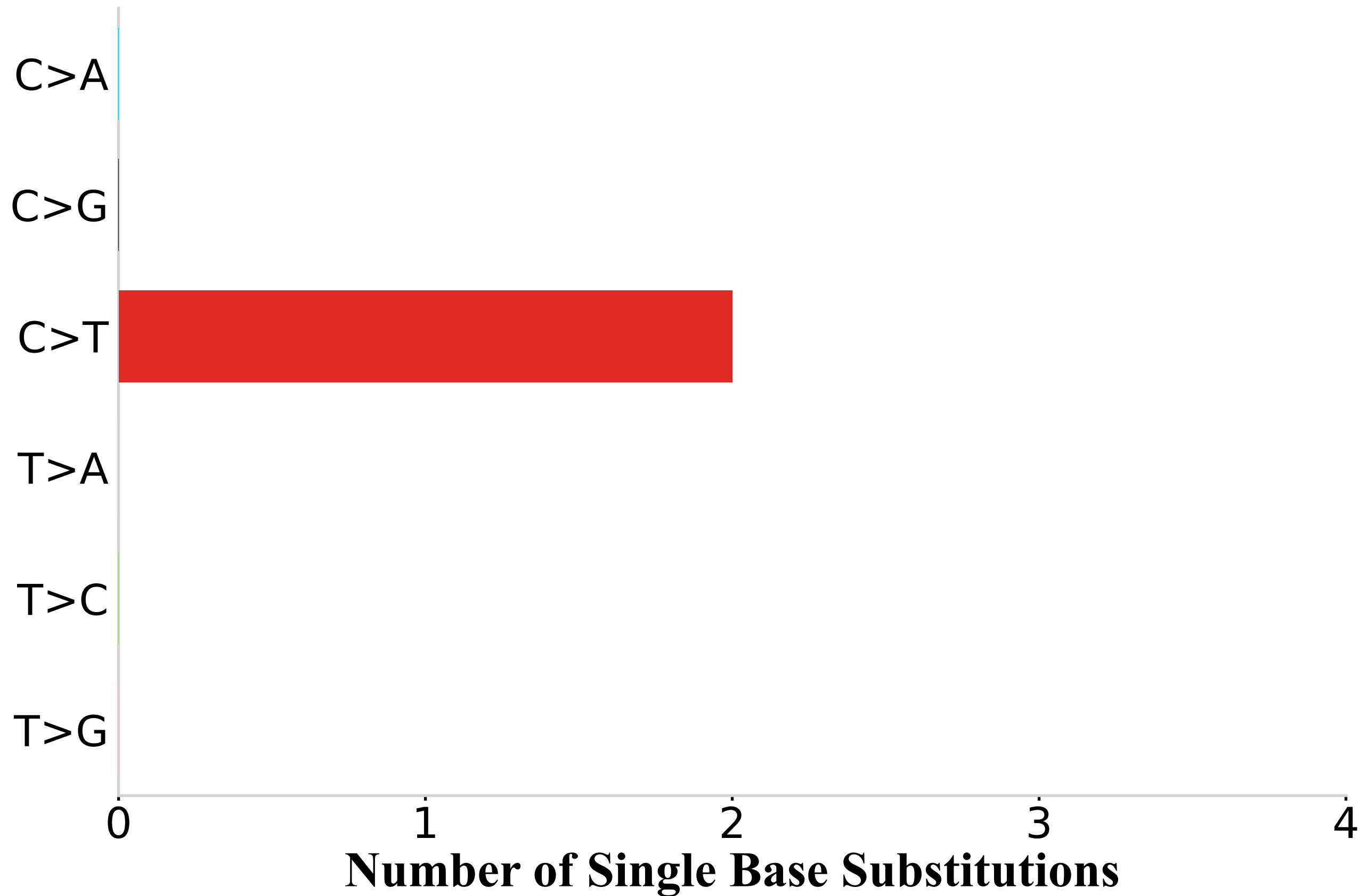
P-0033857-T01-IM6: 5 subs



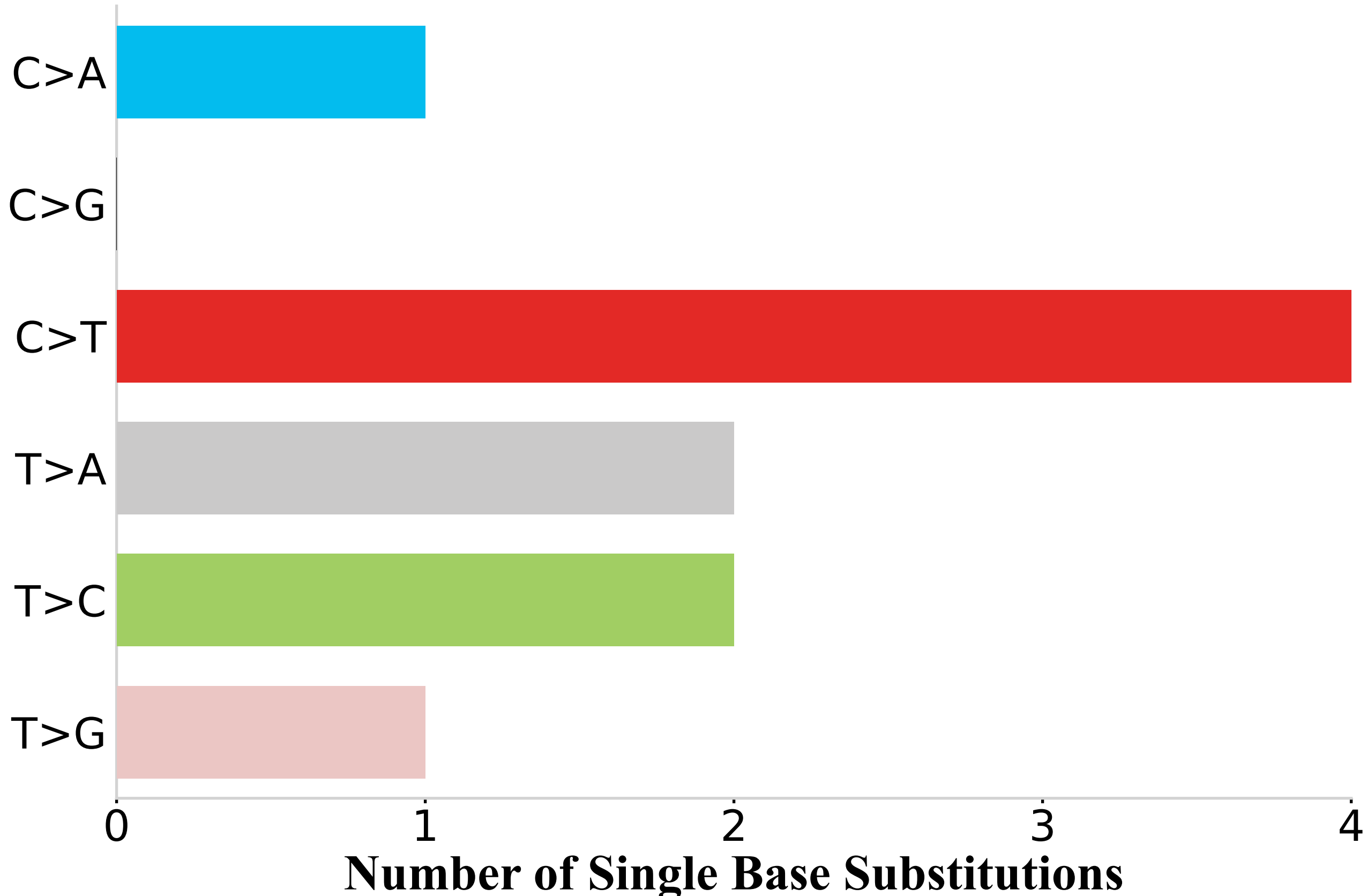
P-0033890-T01-IM6: 4 subs



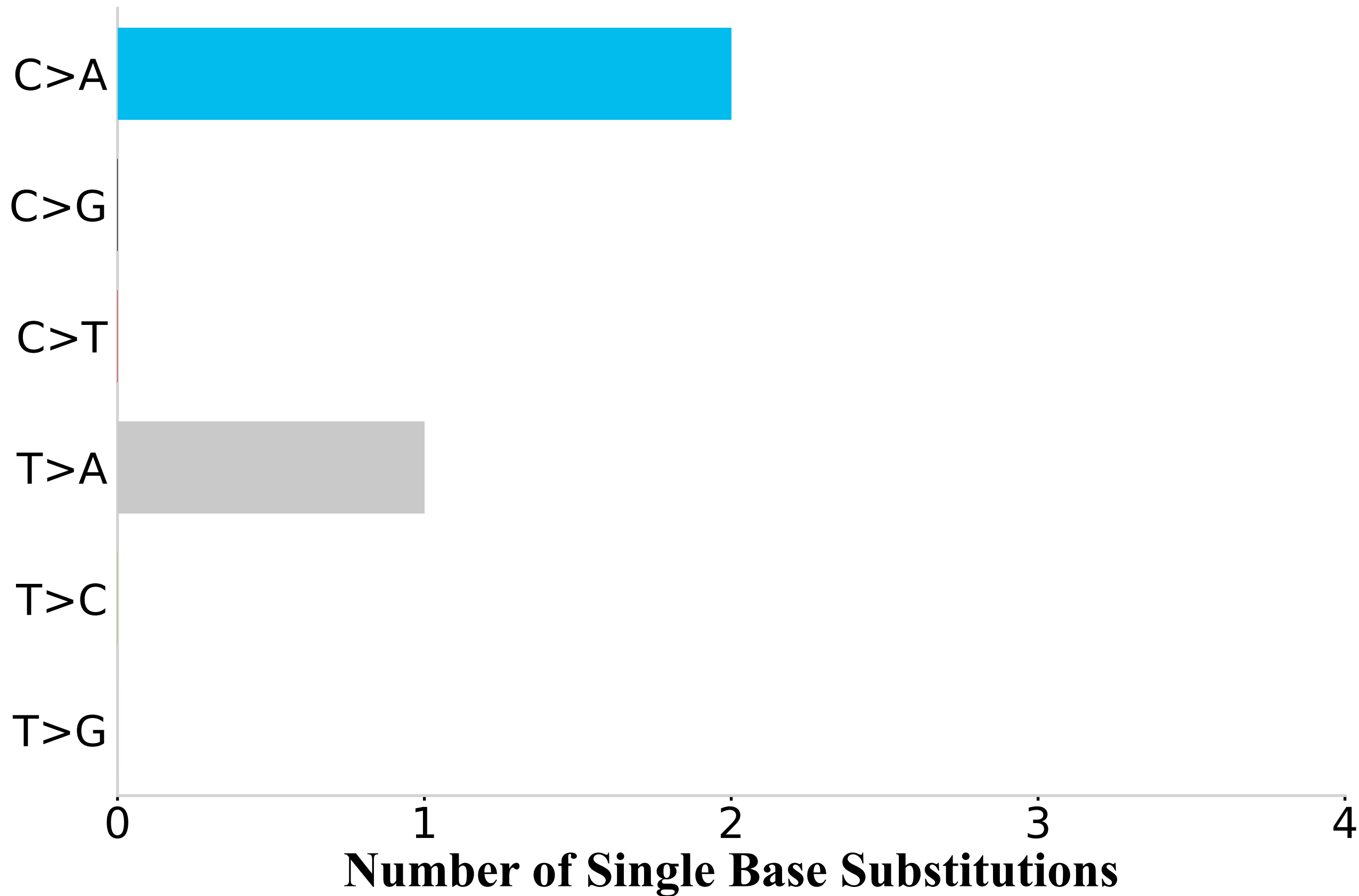
P-0033967-T01-IM6: 2 subs



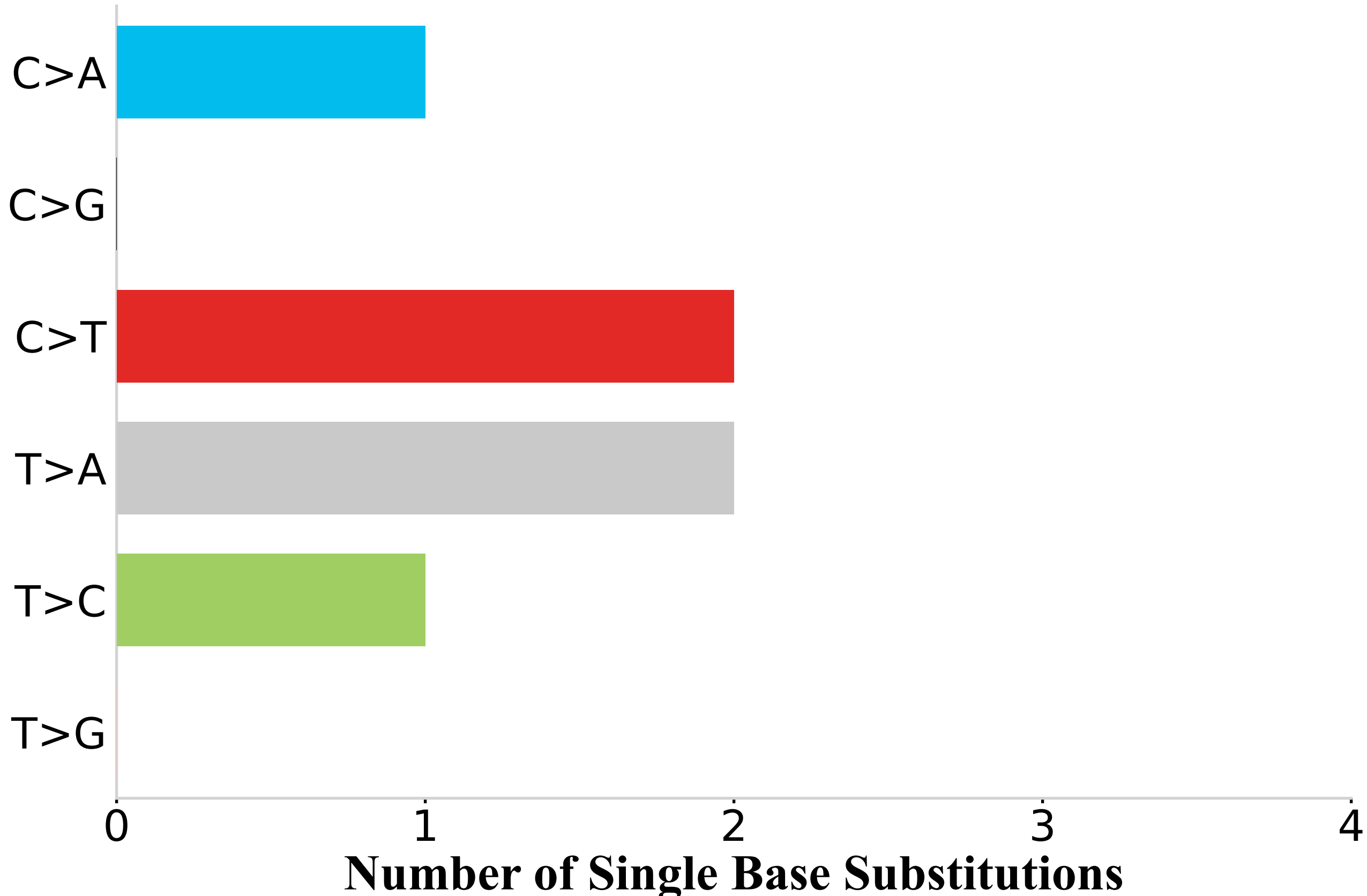
P-0034060-T01-IM6: 10 subs



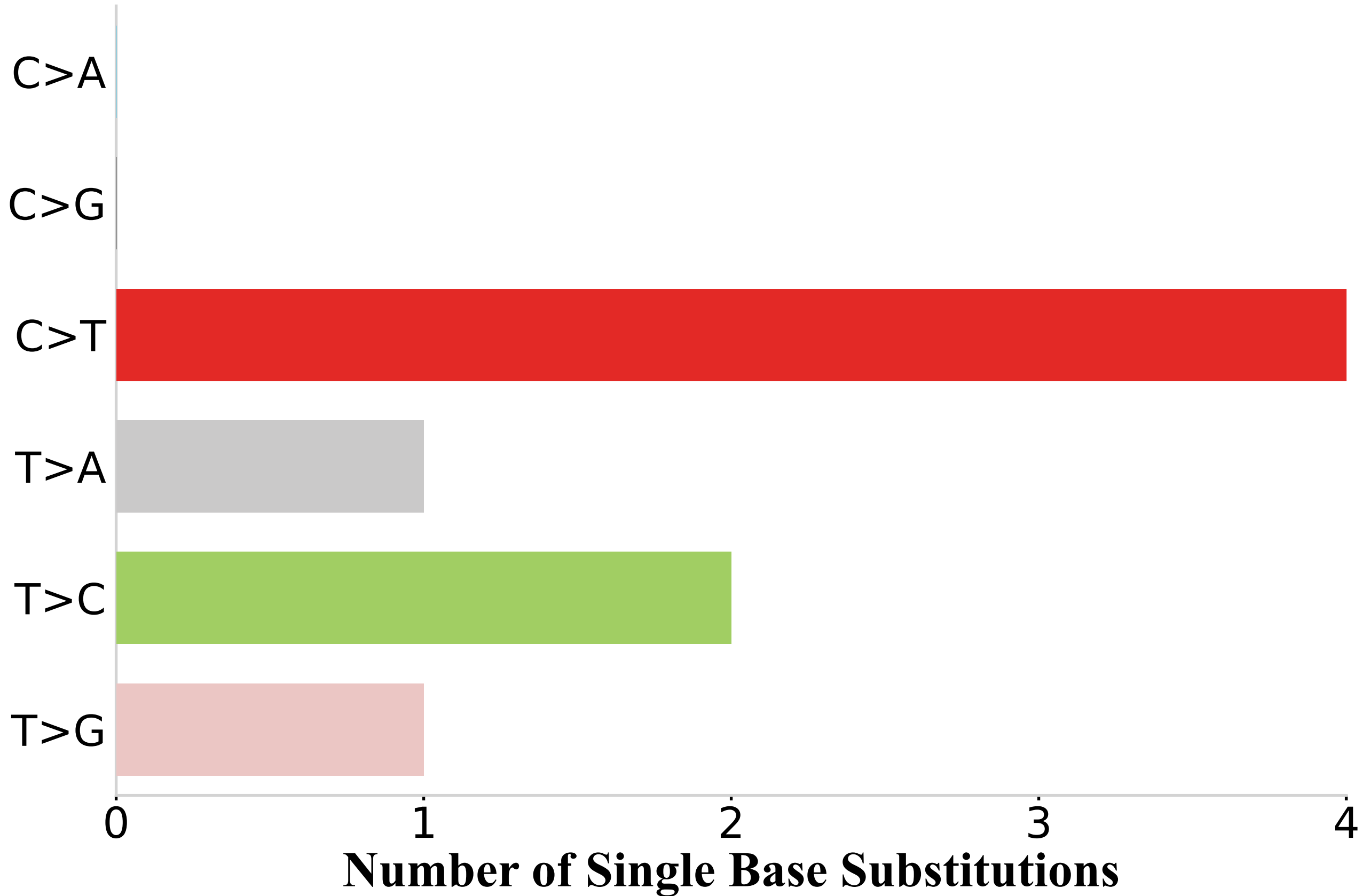
P-0034126-T01-IM6: 3 subs



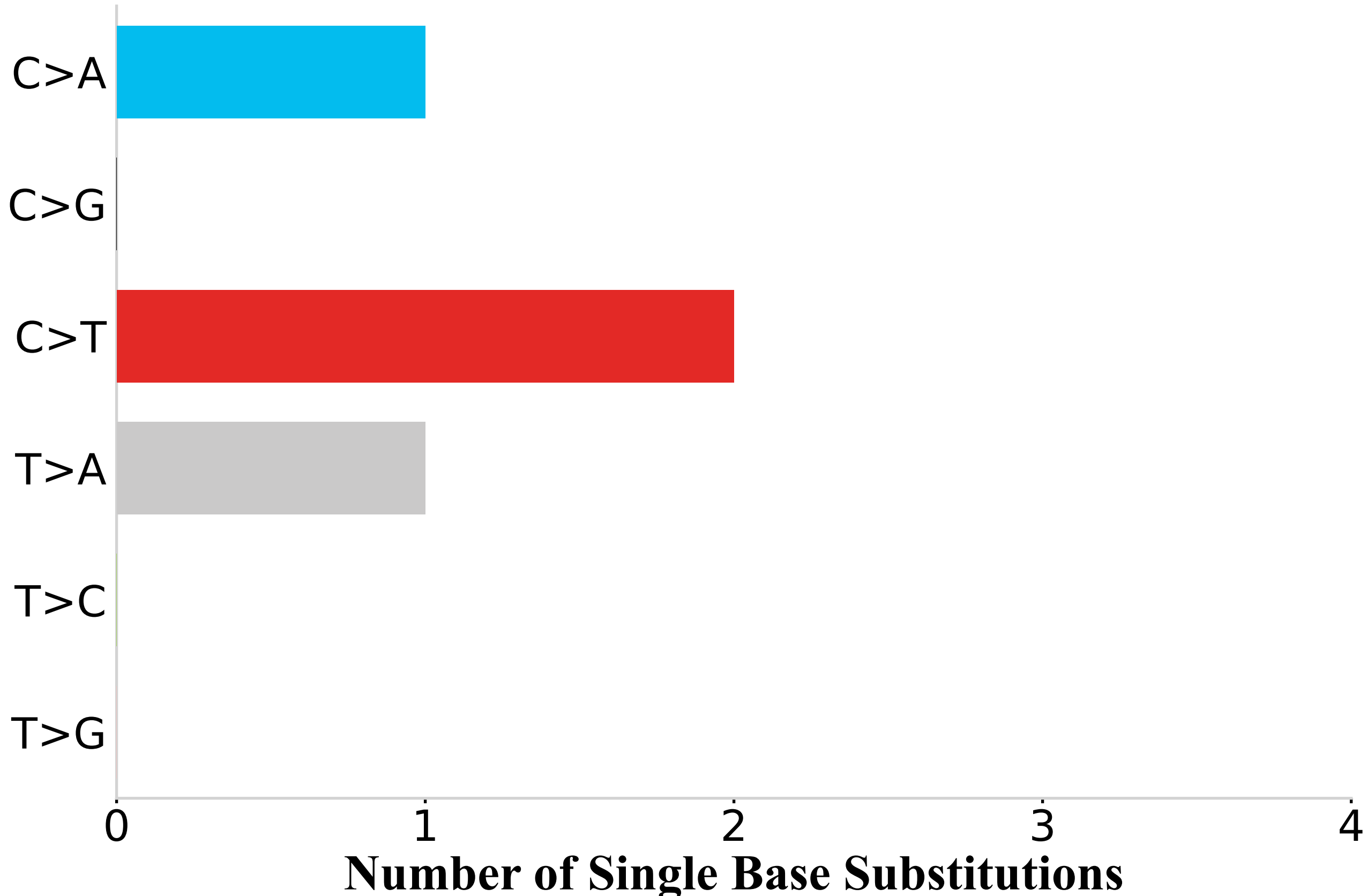
P-0034128-T01-IM6: 6 subs



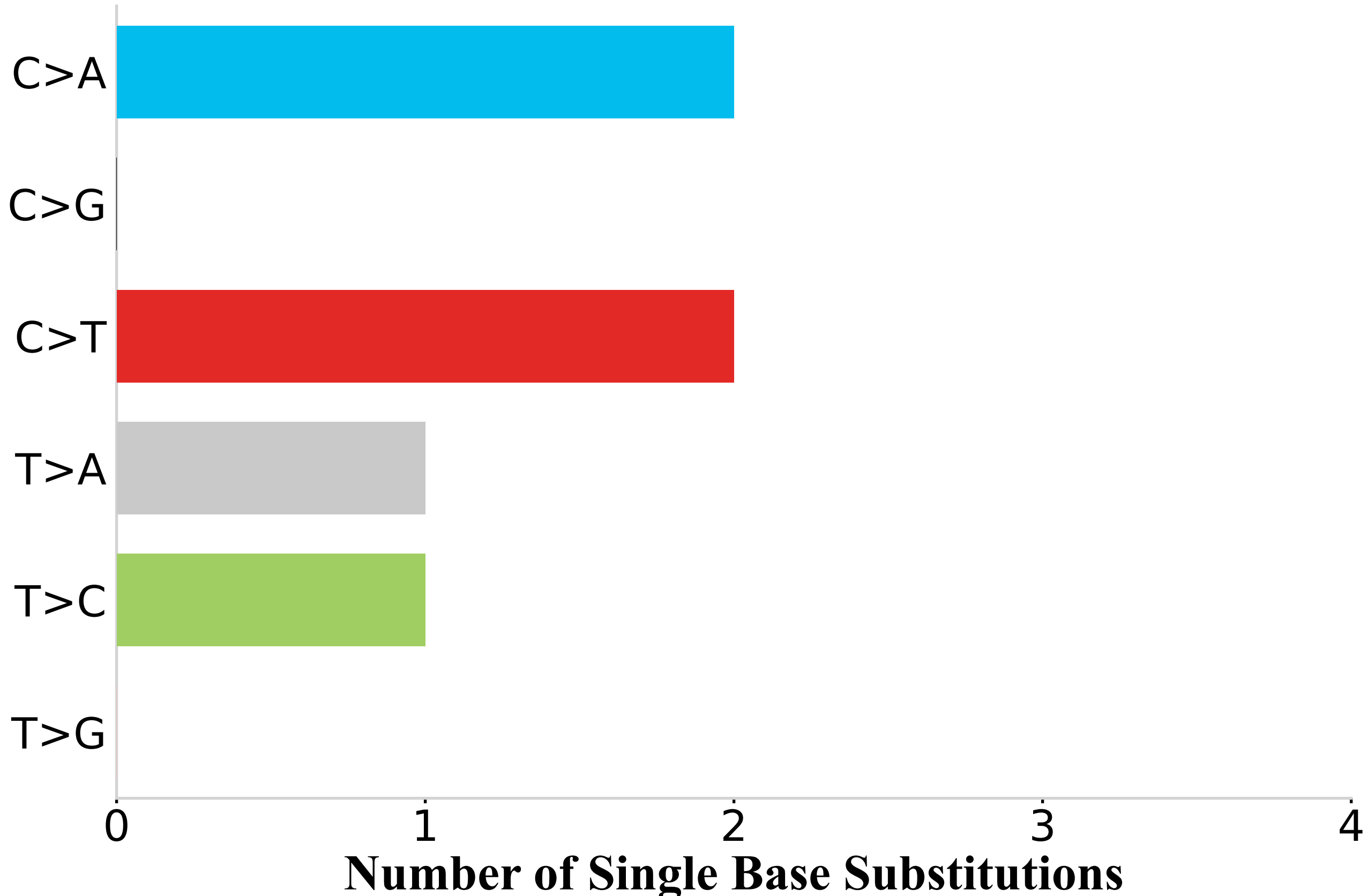
P-0034132-T01-IM6: 8 subs



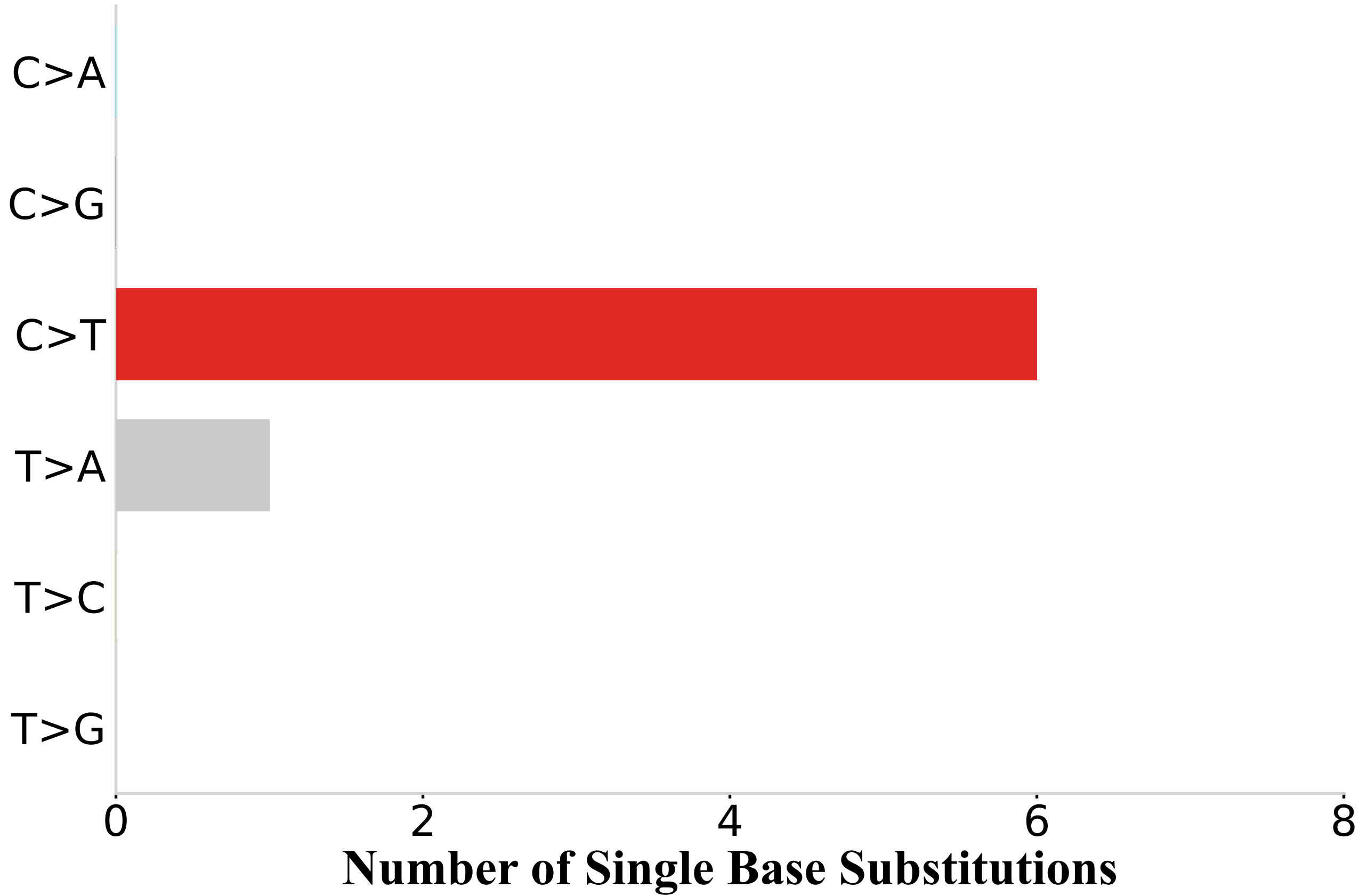
P-0034369-T01-IM6: 4 subs



P-0034372-T01-IM6: 6 subs



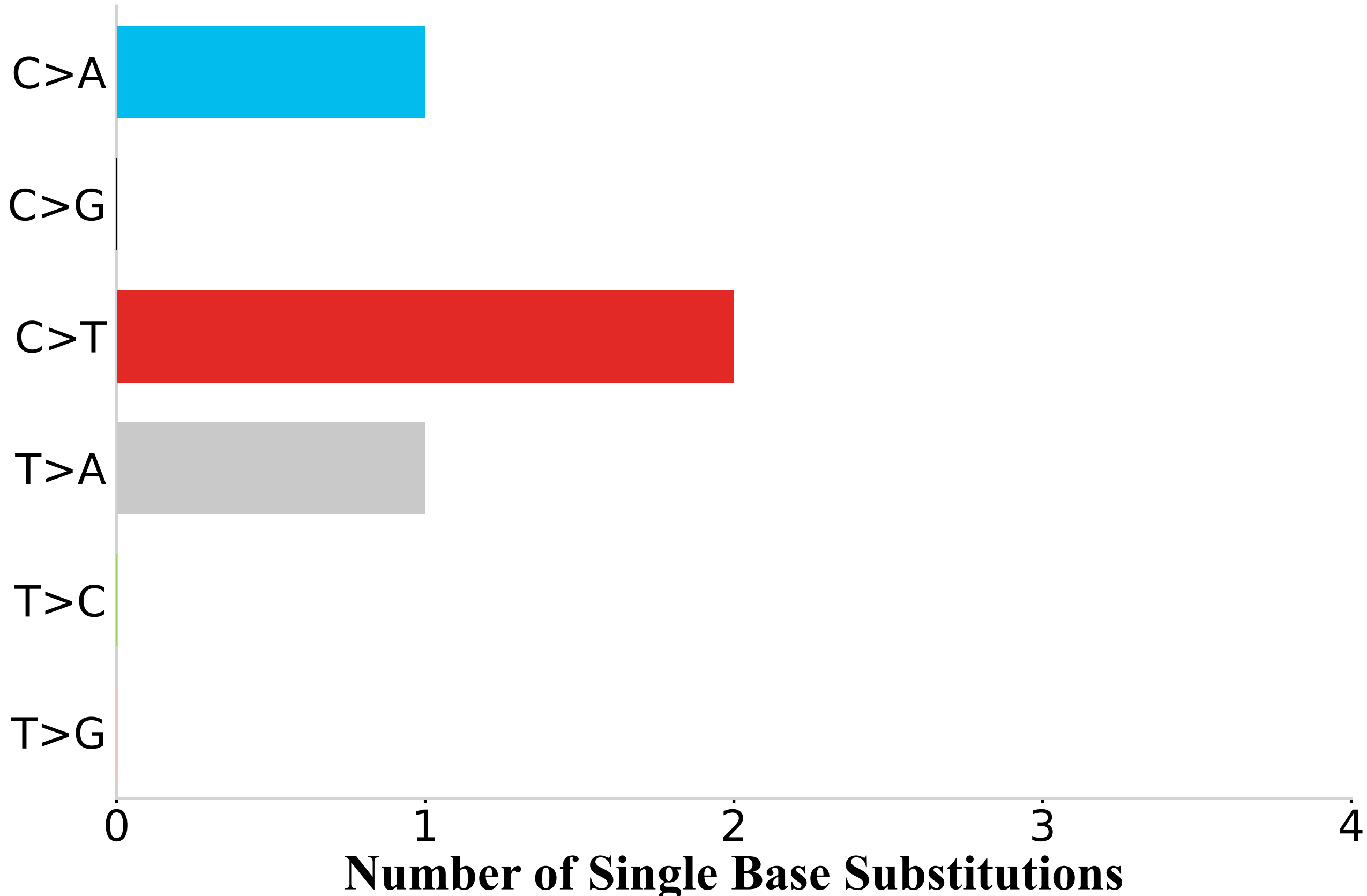
P-0034430-T01-IM6: 7 subs



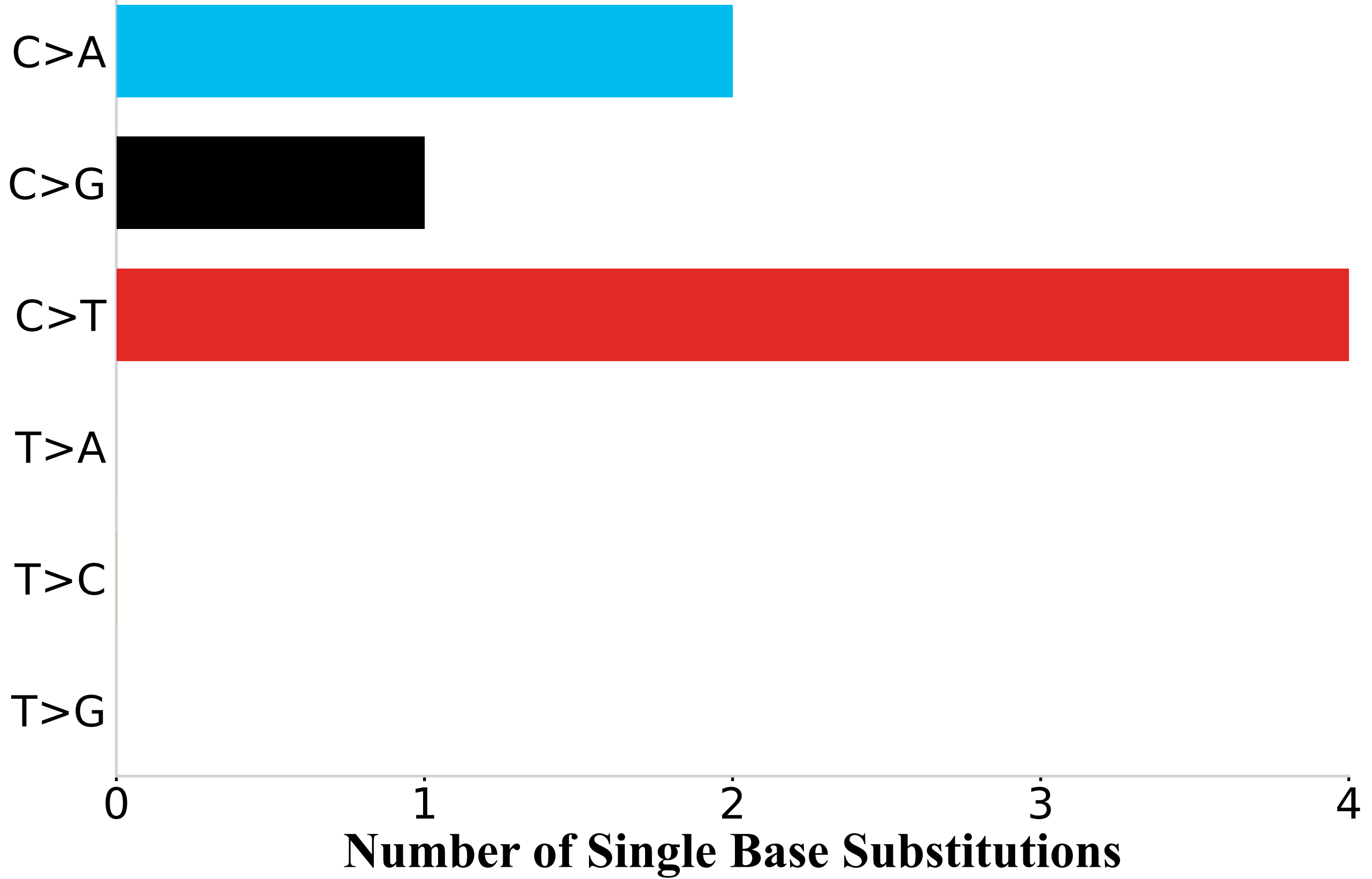
P-0034464-T01-IM6: 1 subs



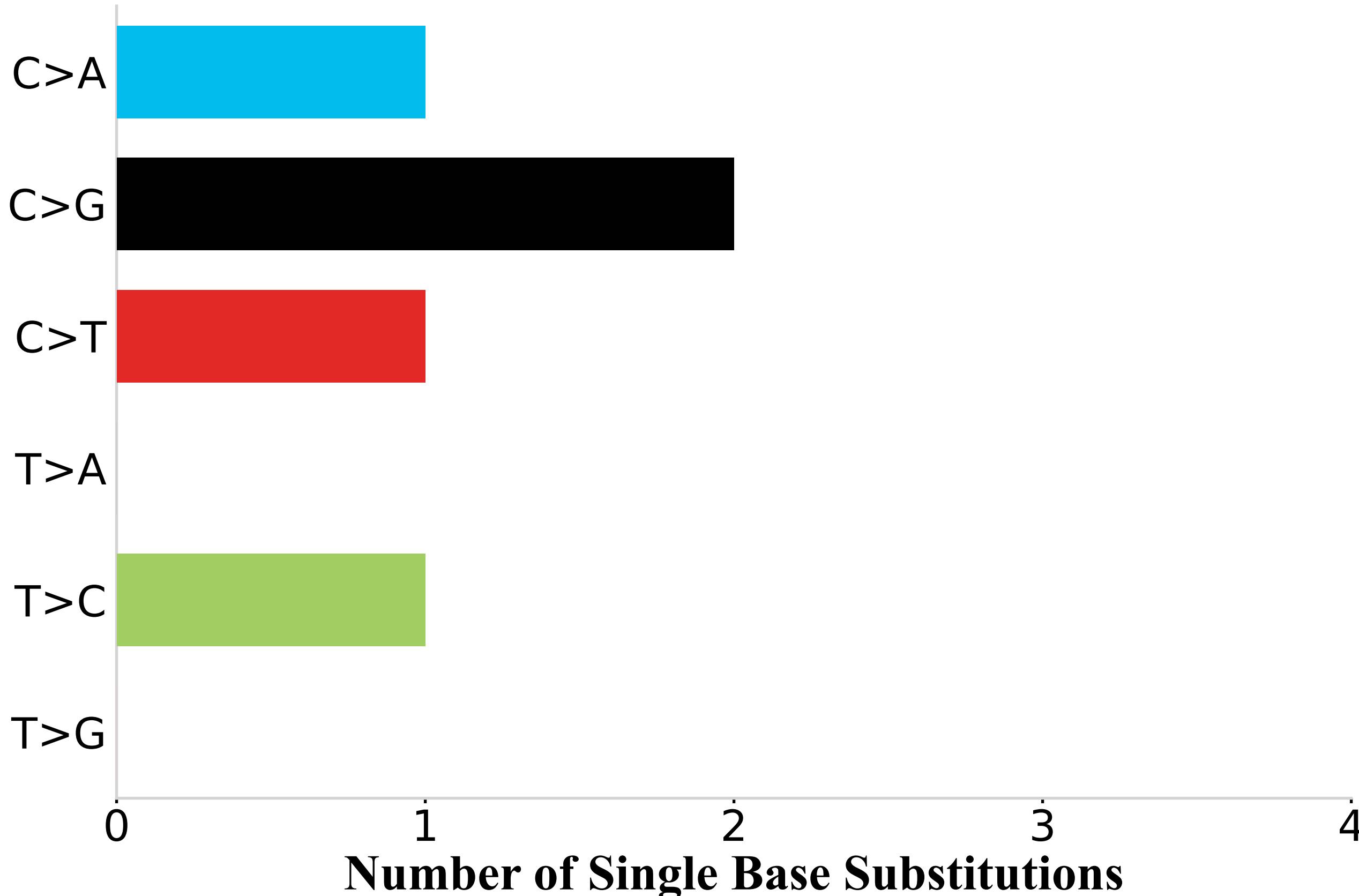
P-0034515-T01-IM6: 4 subs



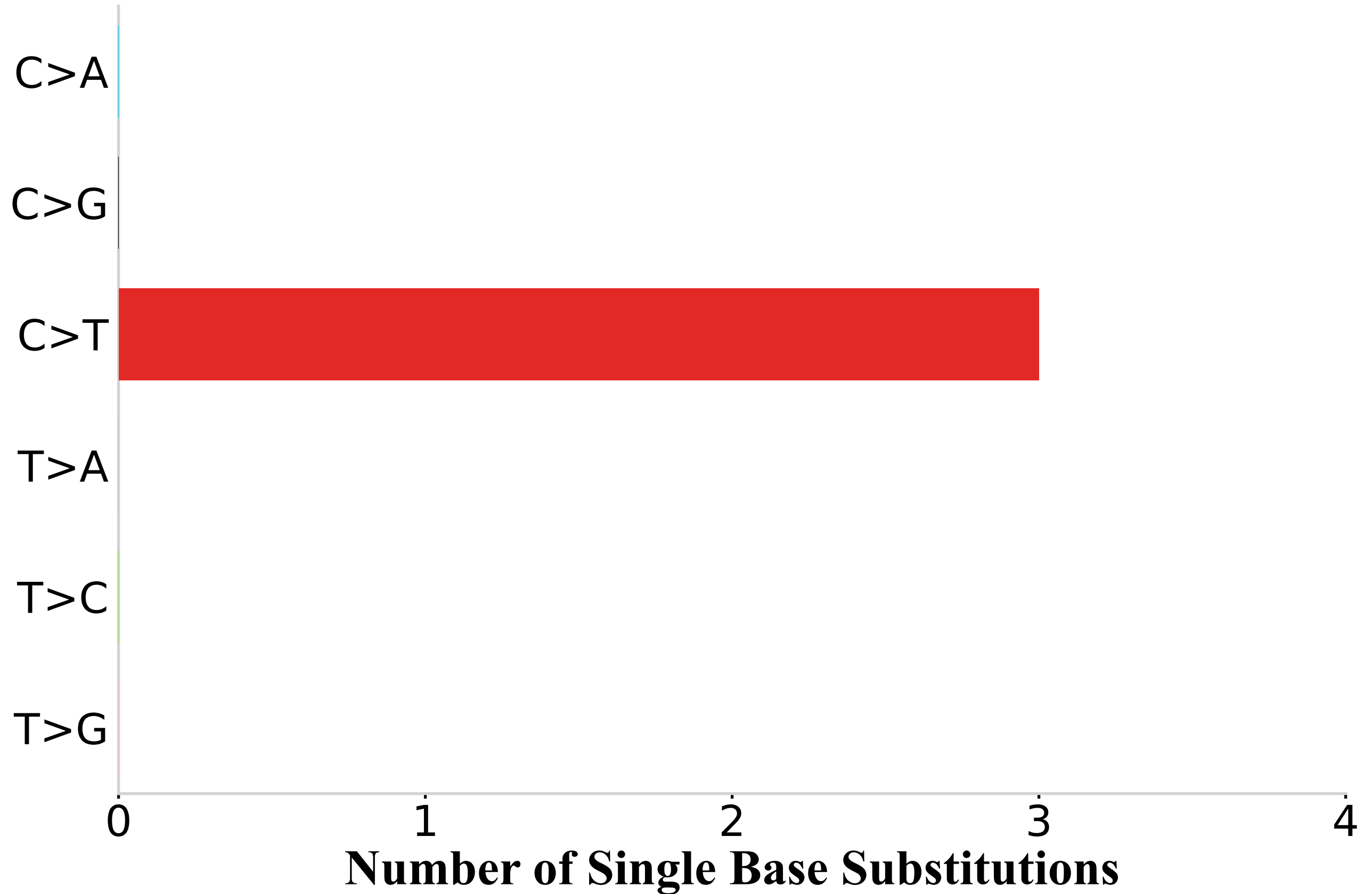
P-0034542-T01-IM6: 7 subs



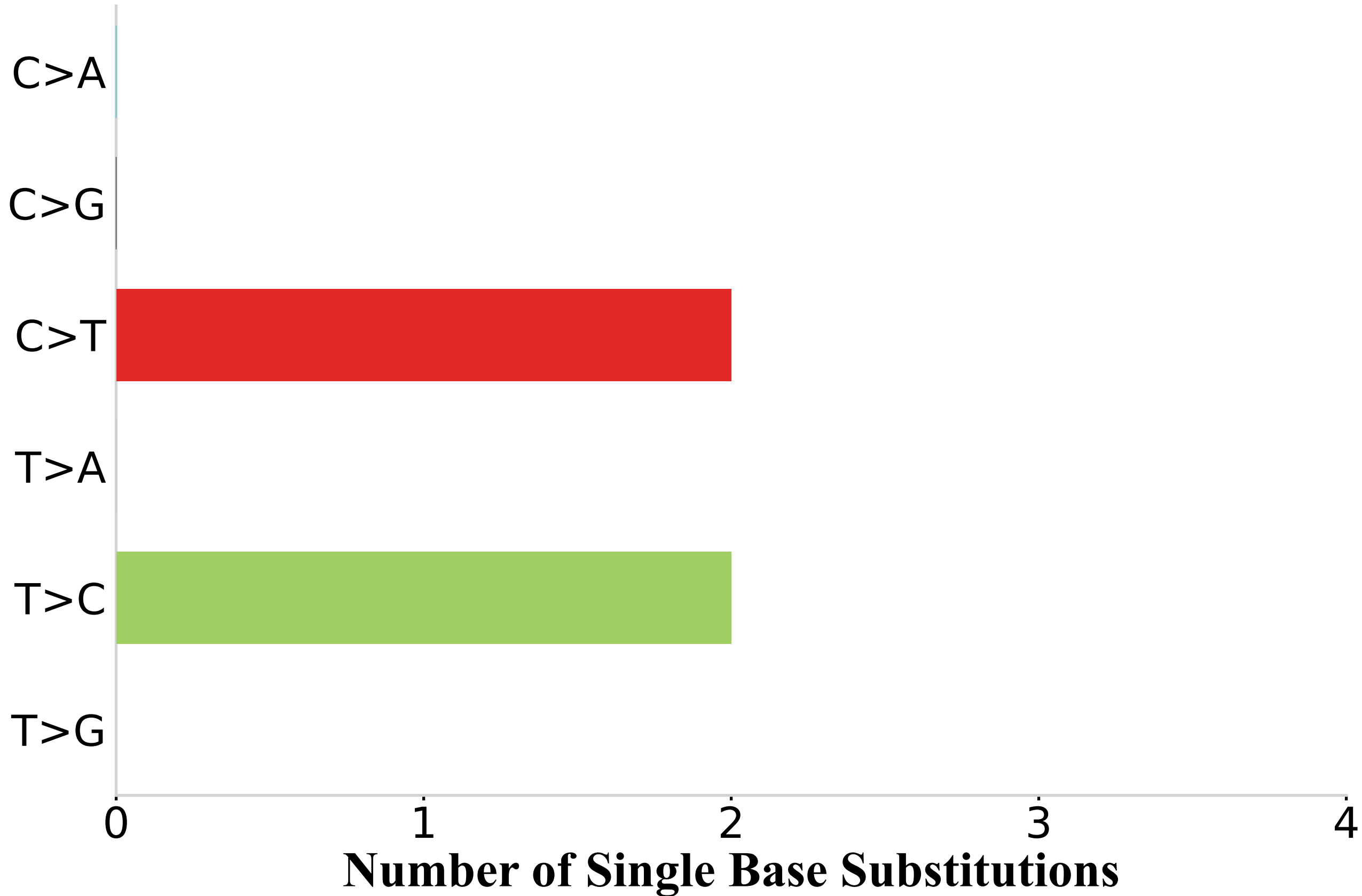
P-0034557-T01-IM6: 5 subs



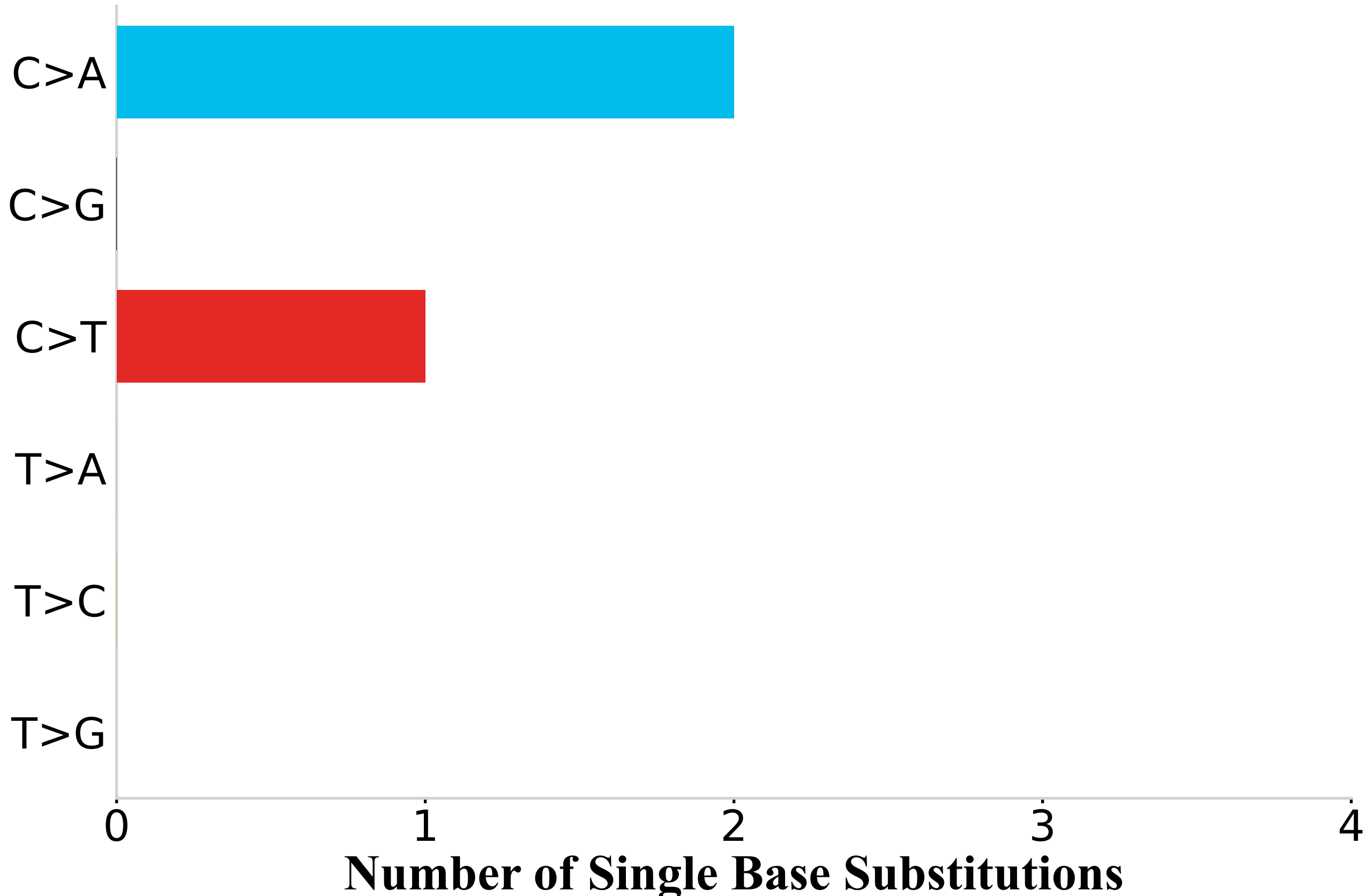
P-0034607-T01-IM6: 3 subs



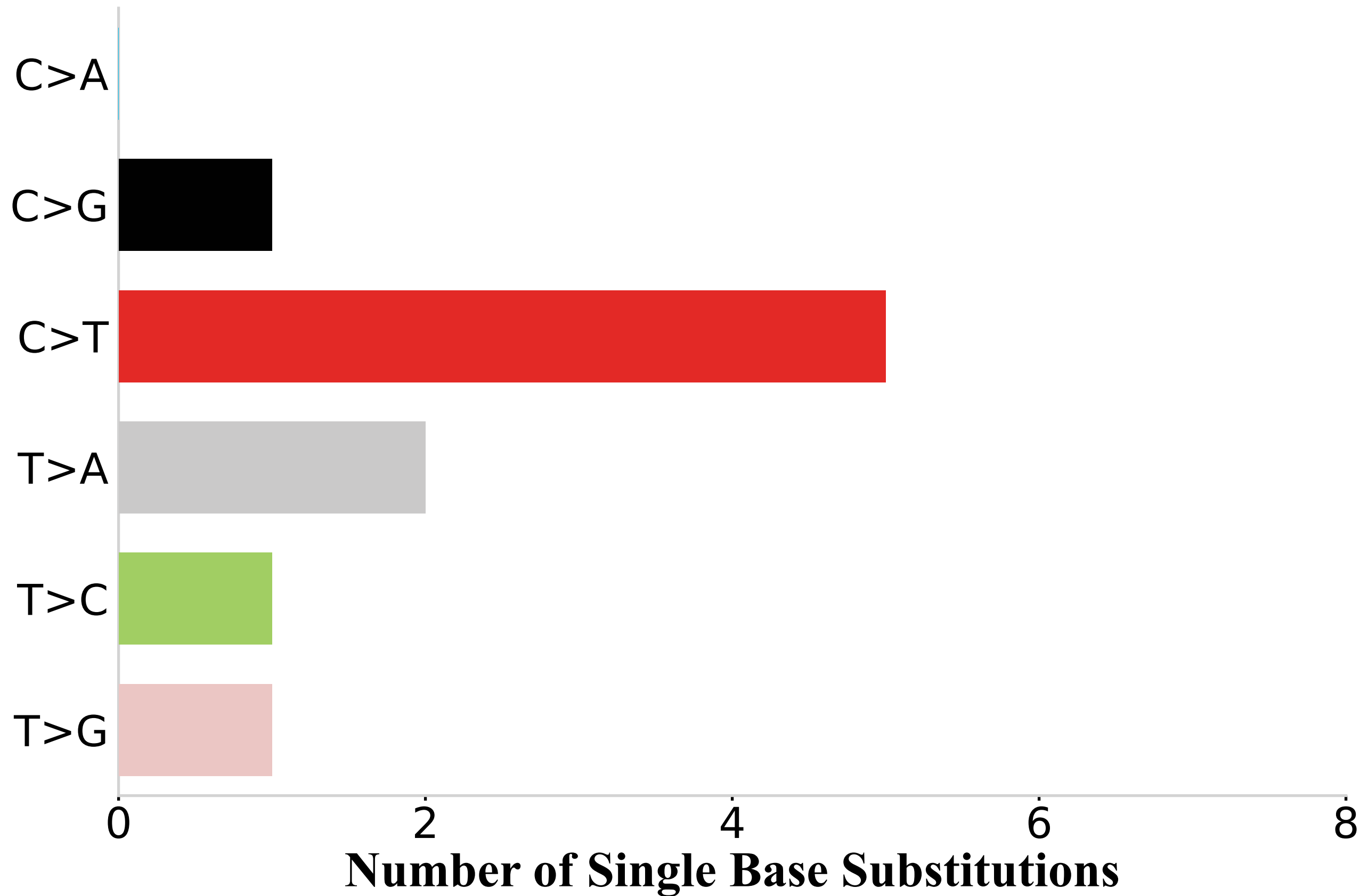
P-0034625-T01-IM6: 4 subs



P-0034665-T02-IM6: 3 subs



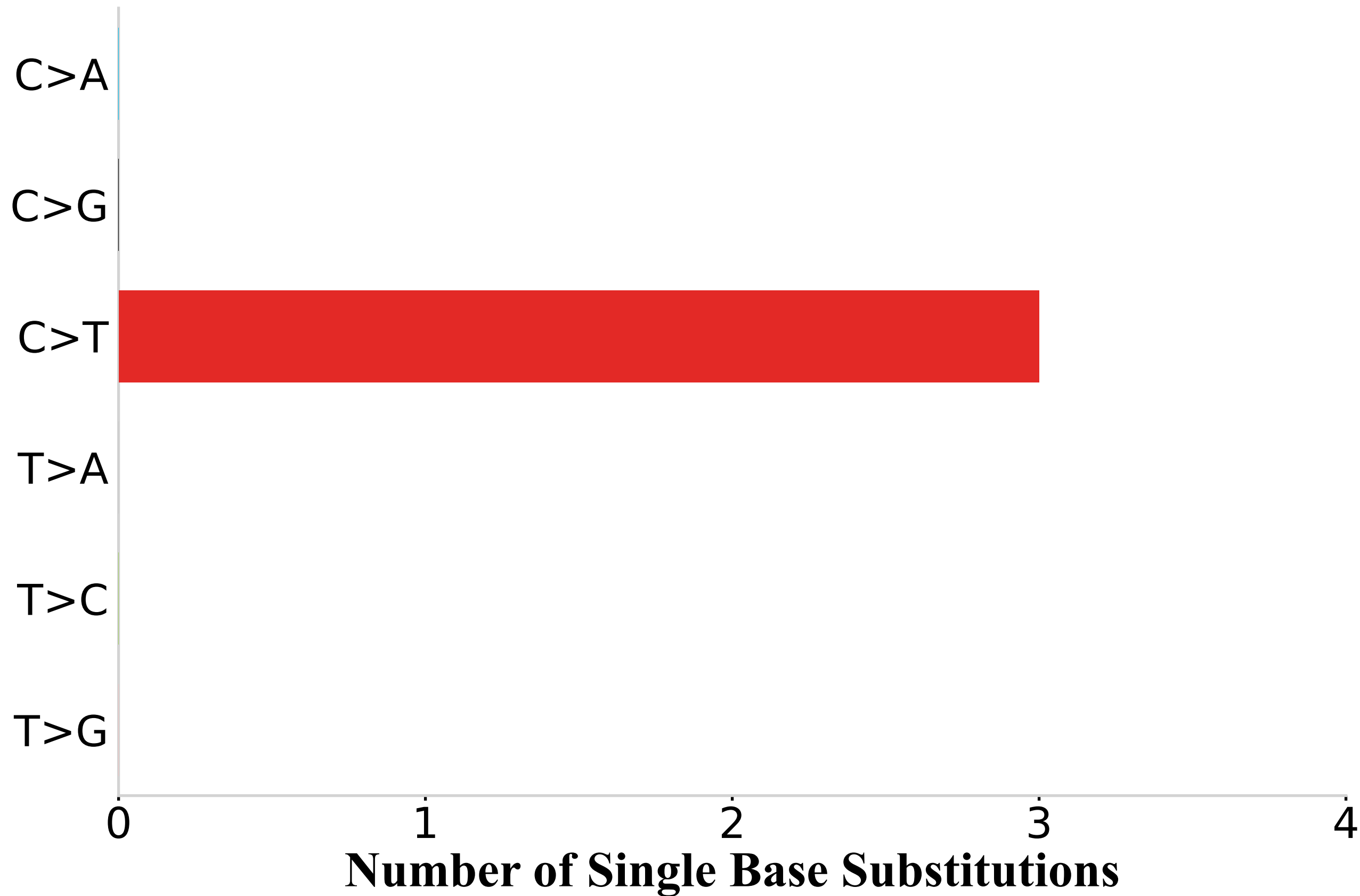
P-0034751-T02-IM6: 10 subs



P-0034793-T01-IM6: 1 subs



P-0034816-T01-IM6: 3 subs



P-0034887-T01-IM6: 0 subs

C>A

C>G

C>T

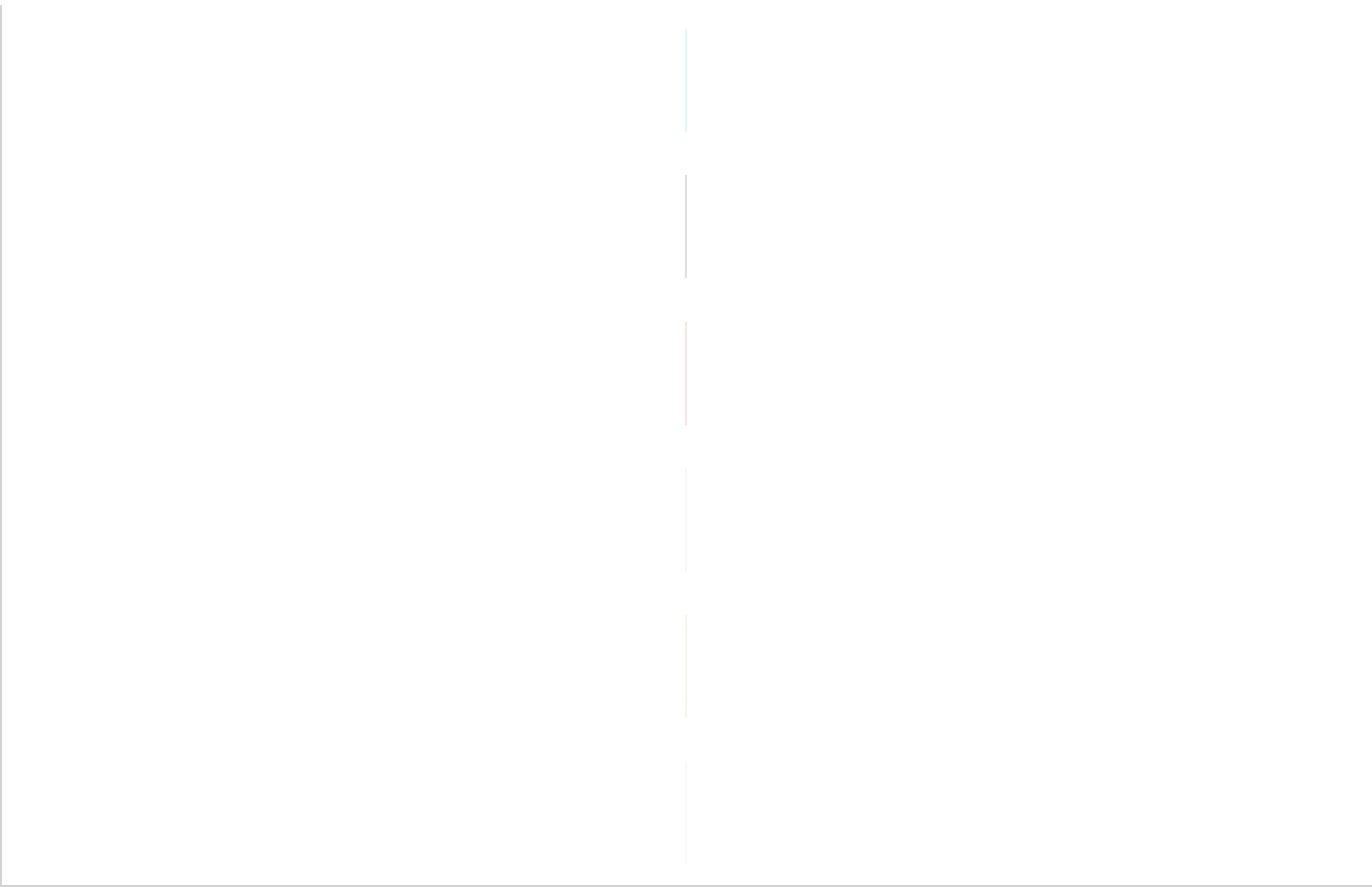
T>A

T>C

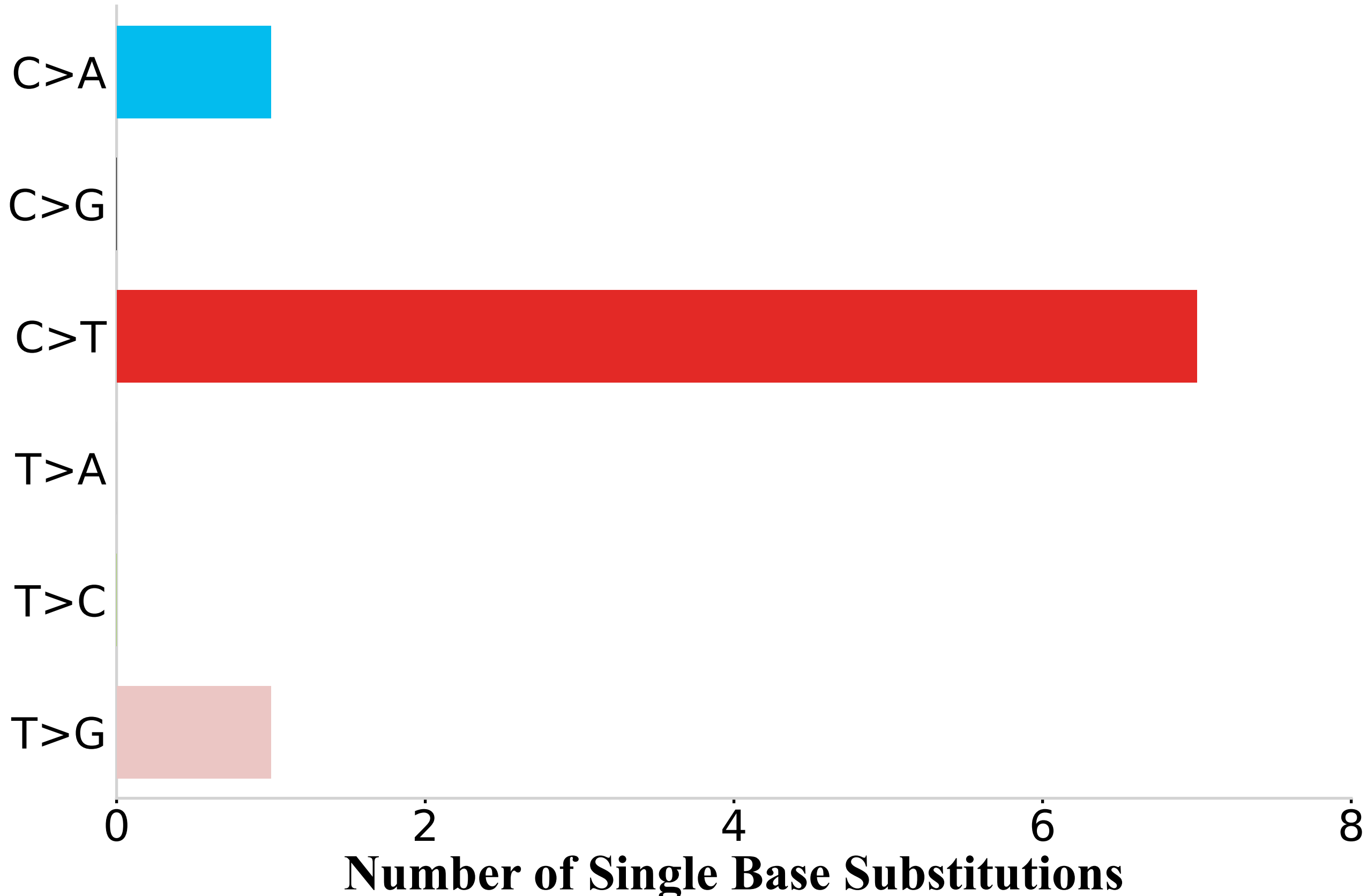
T>G

0

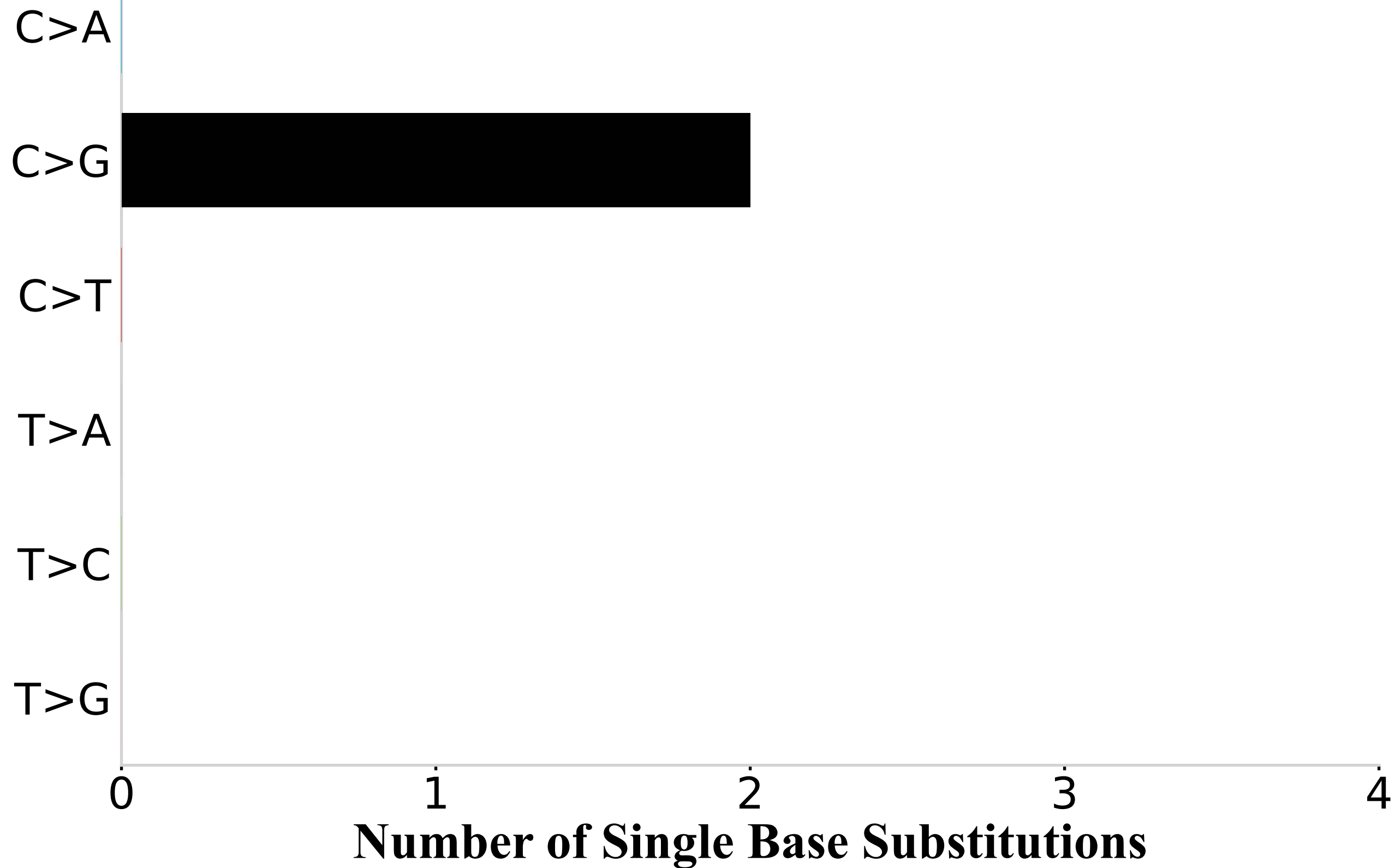
Number of Single Base Substitutions



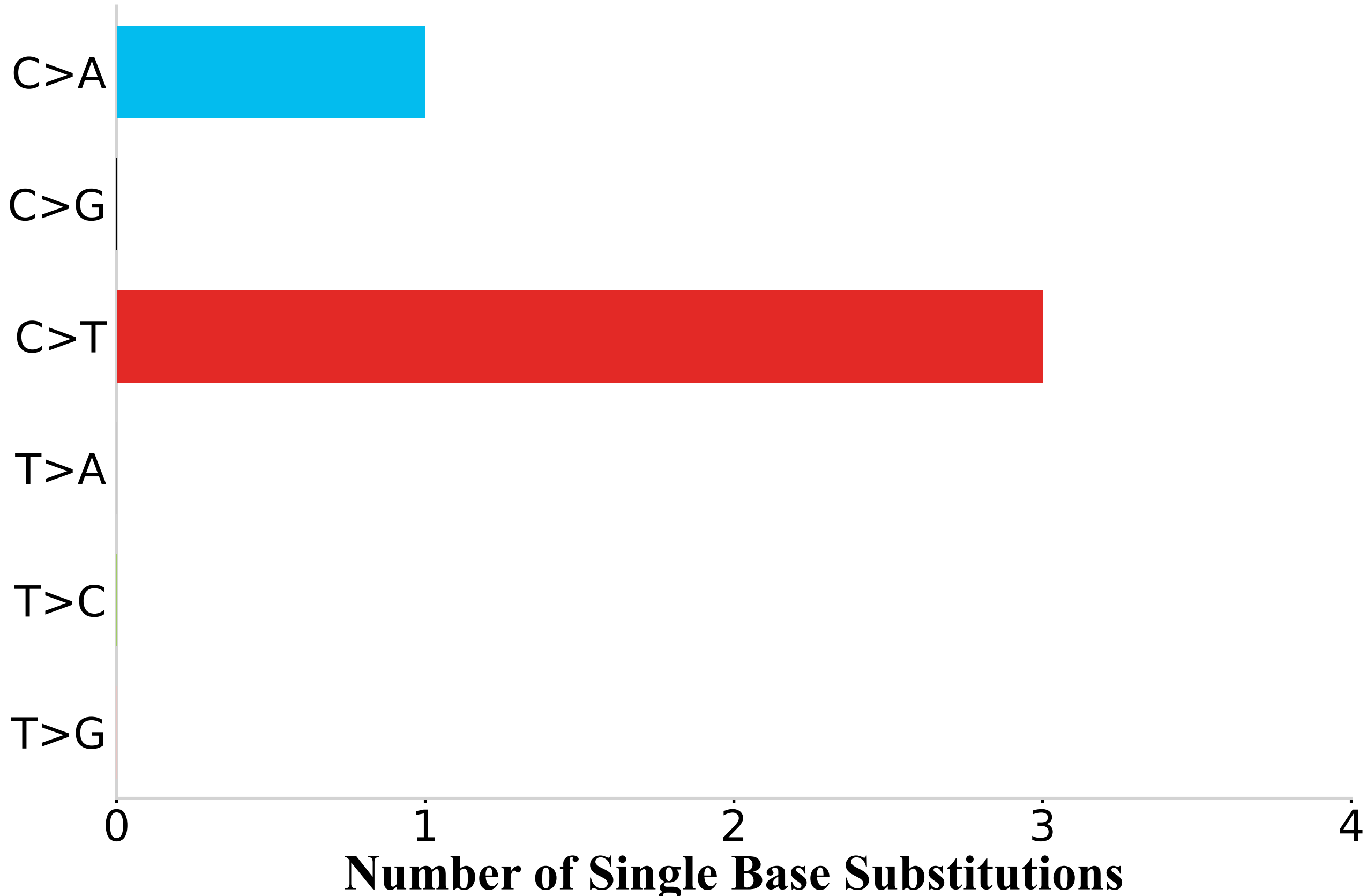
P-0034916-T01-IM6: 9 subs



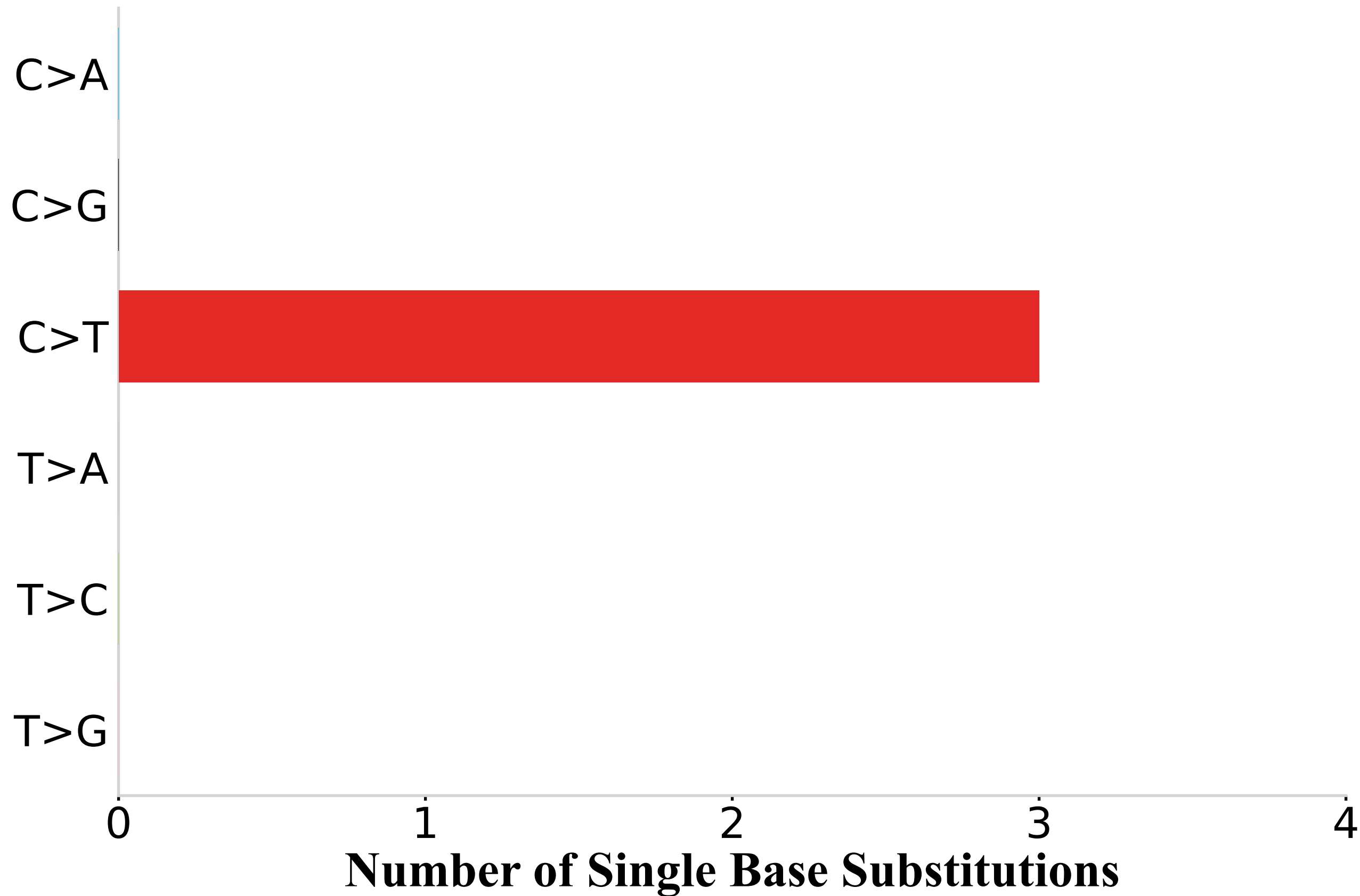
P-0034917-T01-IM6: 2 subs



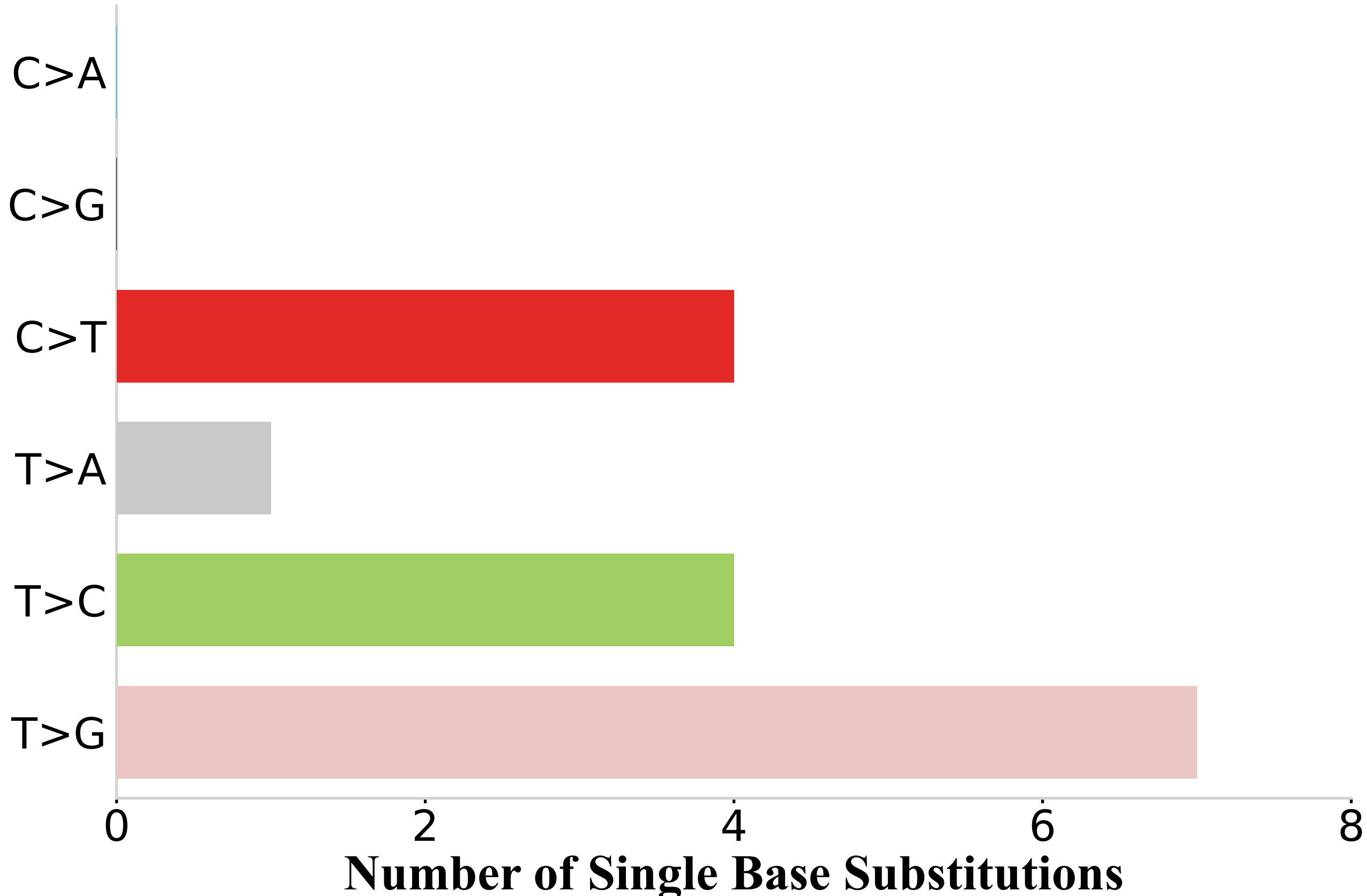
P-0034925-T01-IM6: 4 subs



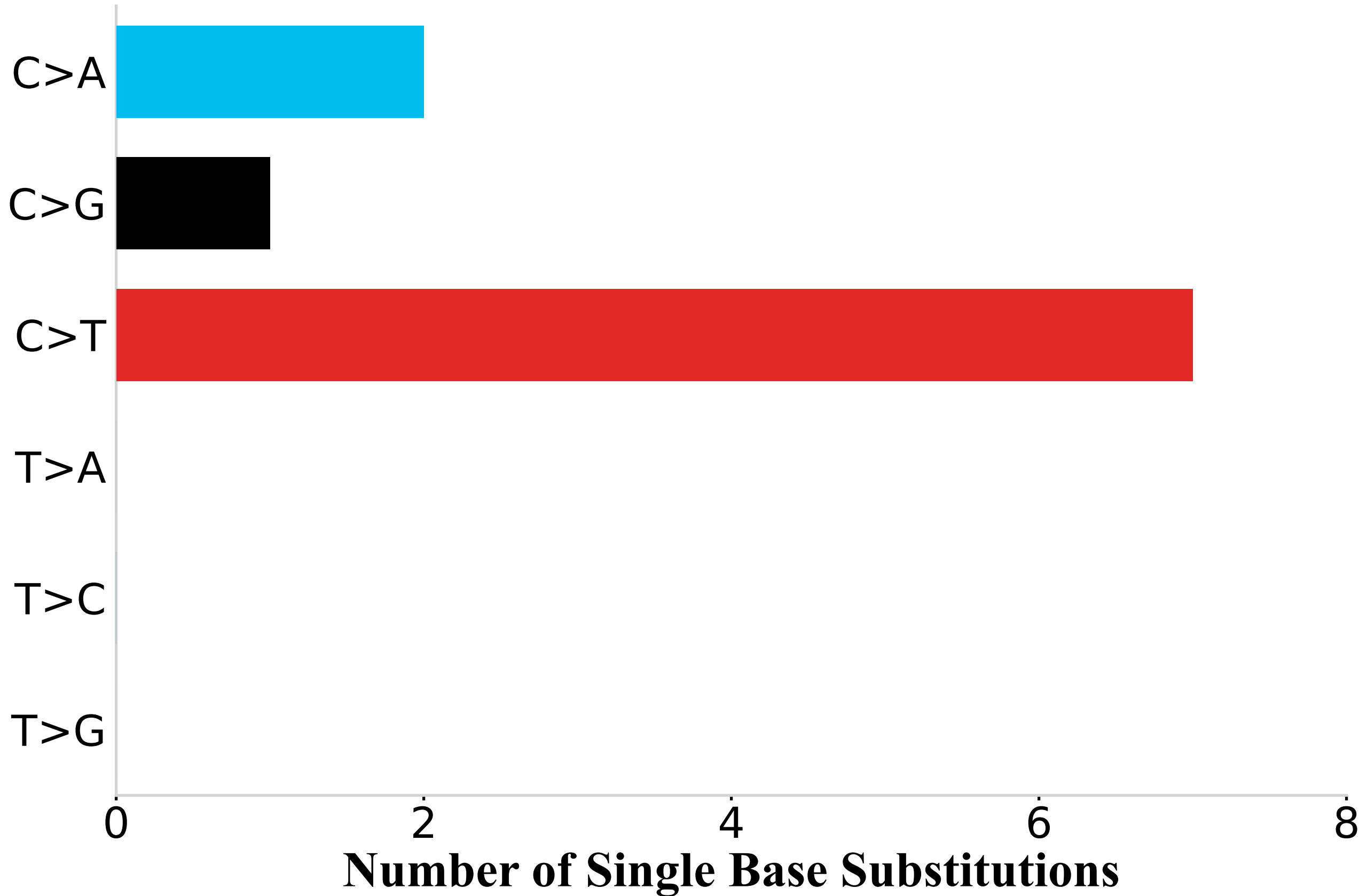
P-0034999-T01-IM6: 3 subs



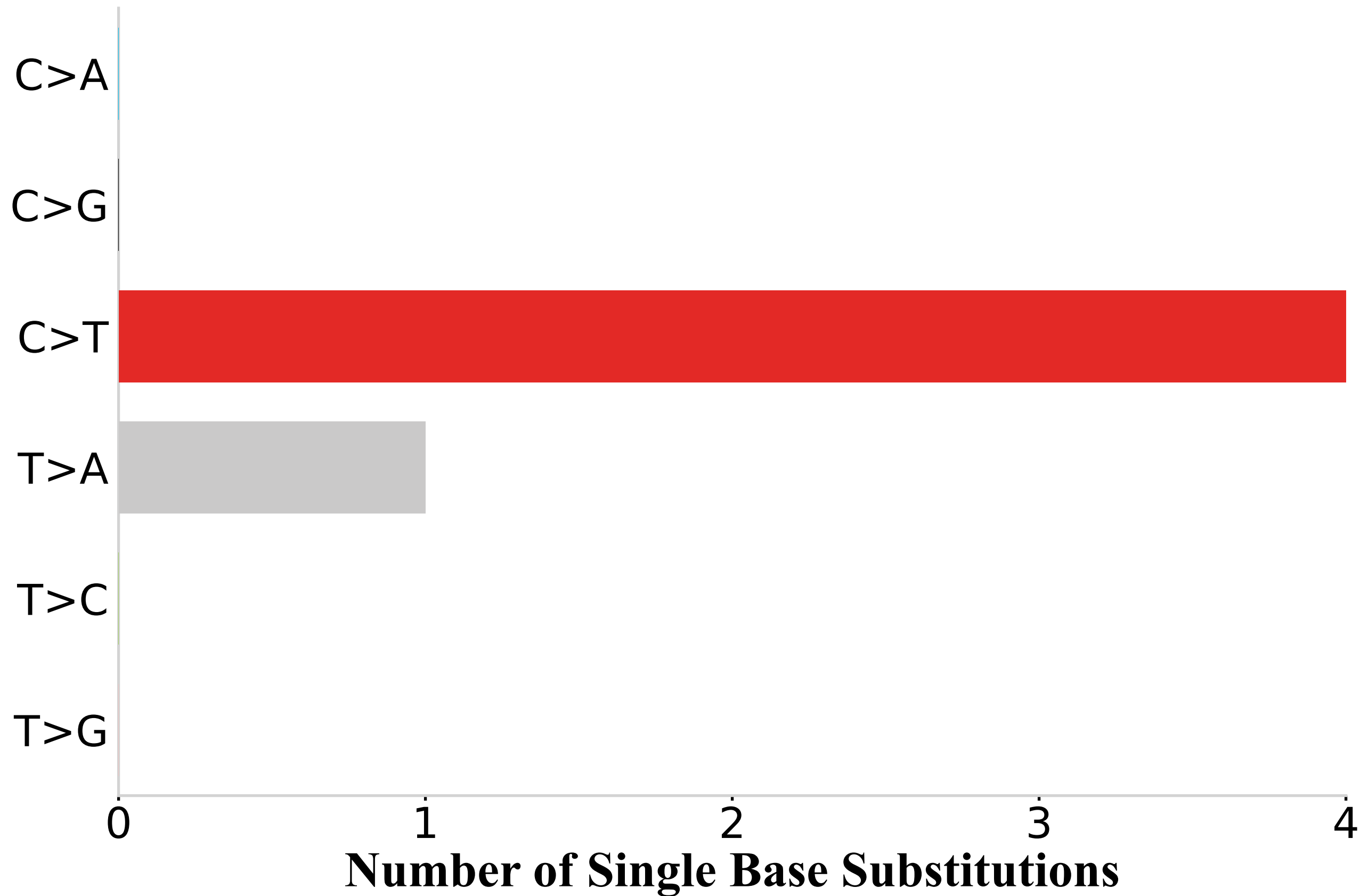
P-0035077-T01-IM6: 16 subs



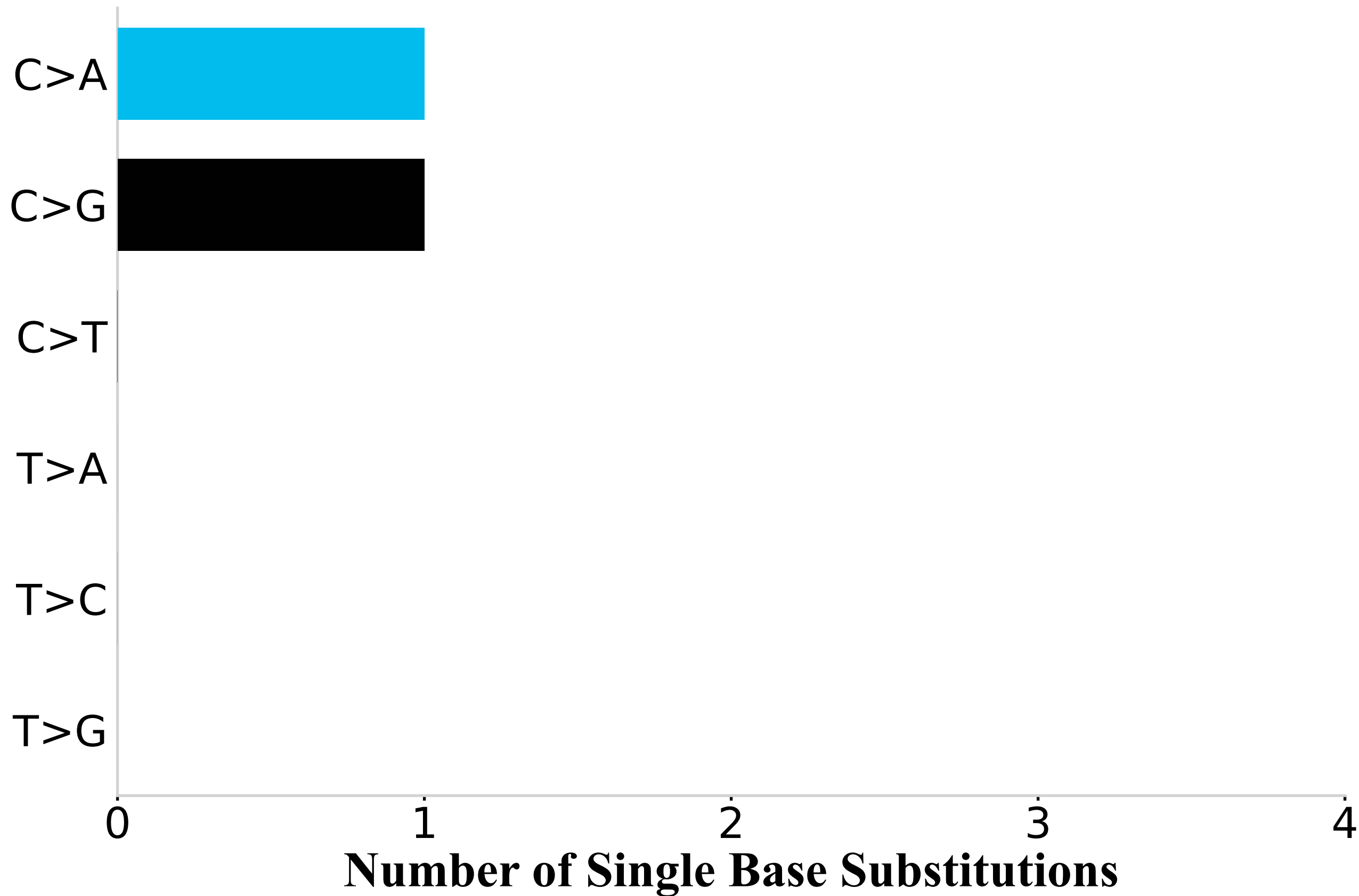
P-0035435-T01-IM6: 10 subs



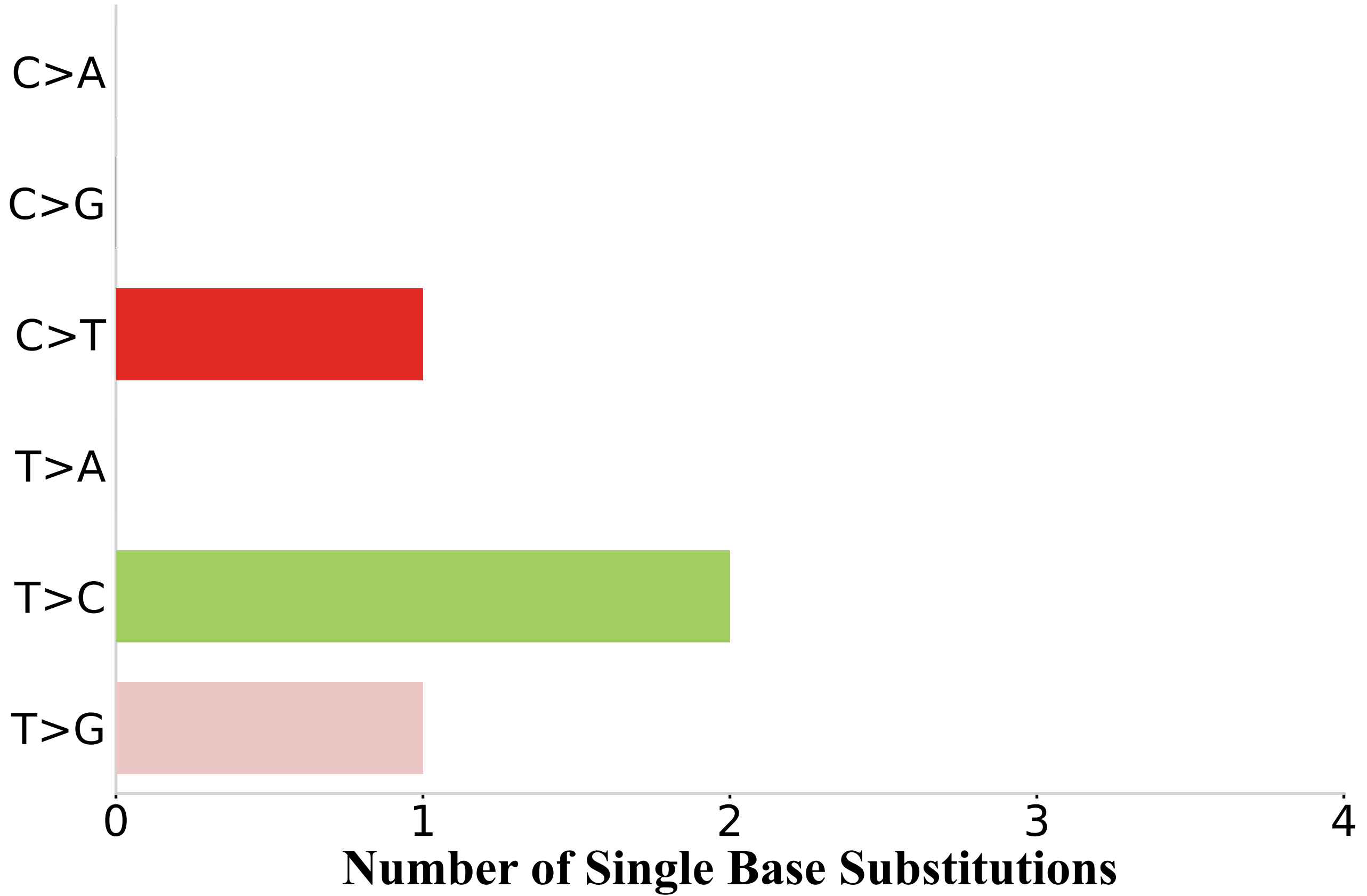
P-0035791-T01-IM6: 5 subs



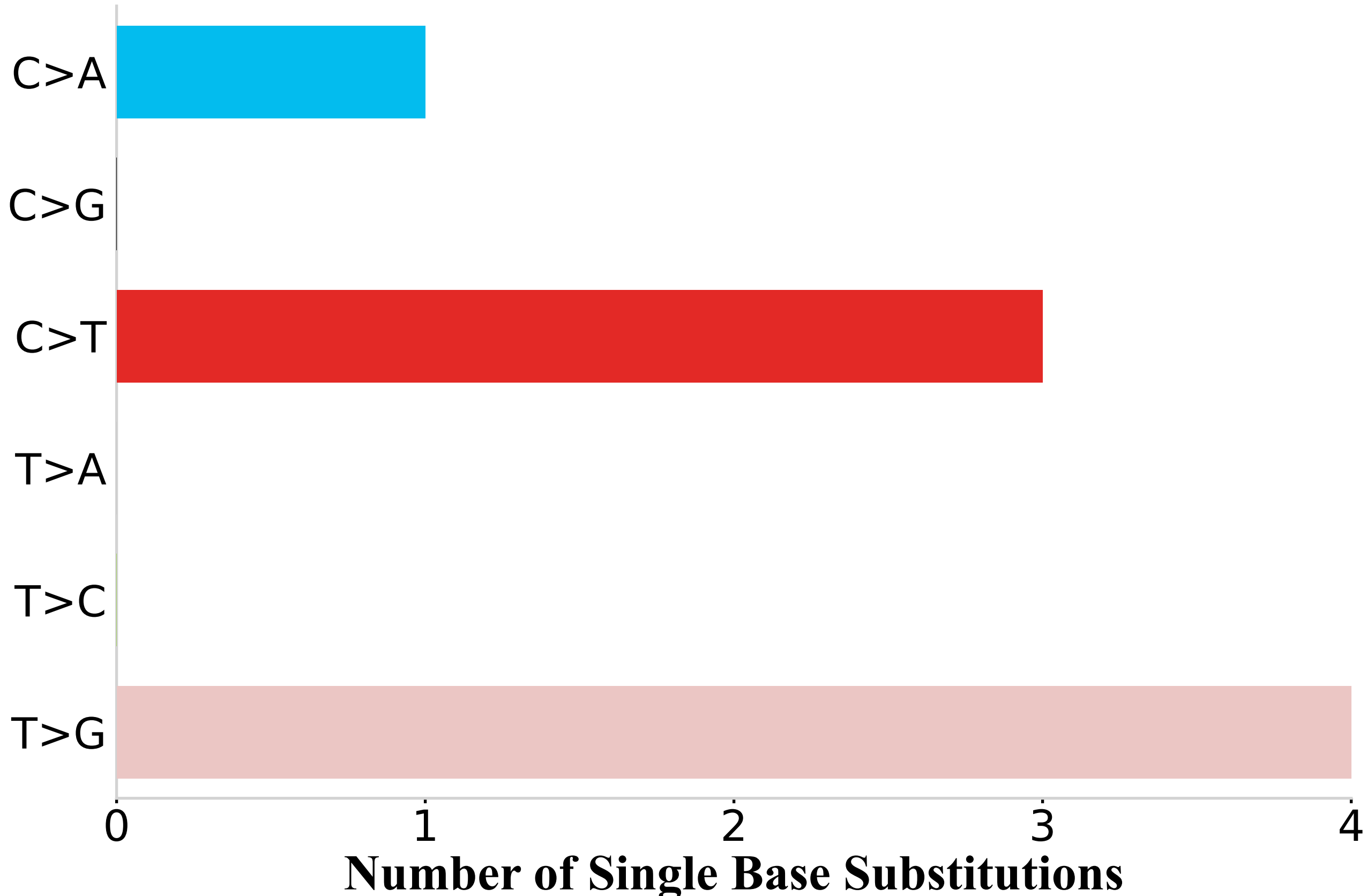
P-0035812-T01-IM6: 2 subs



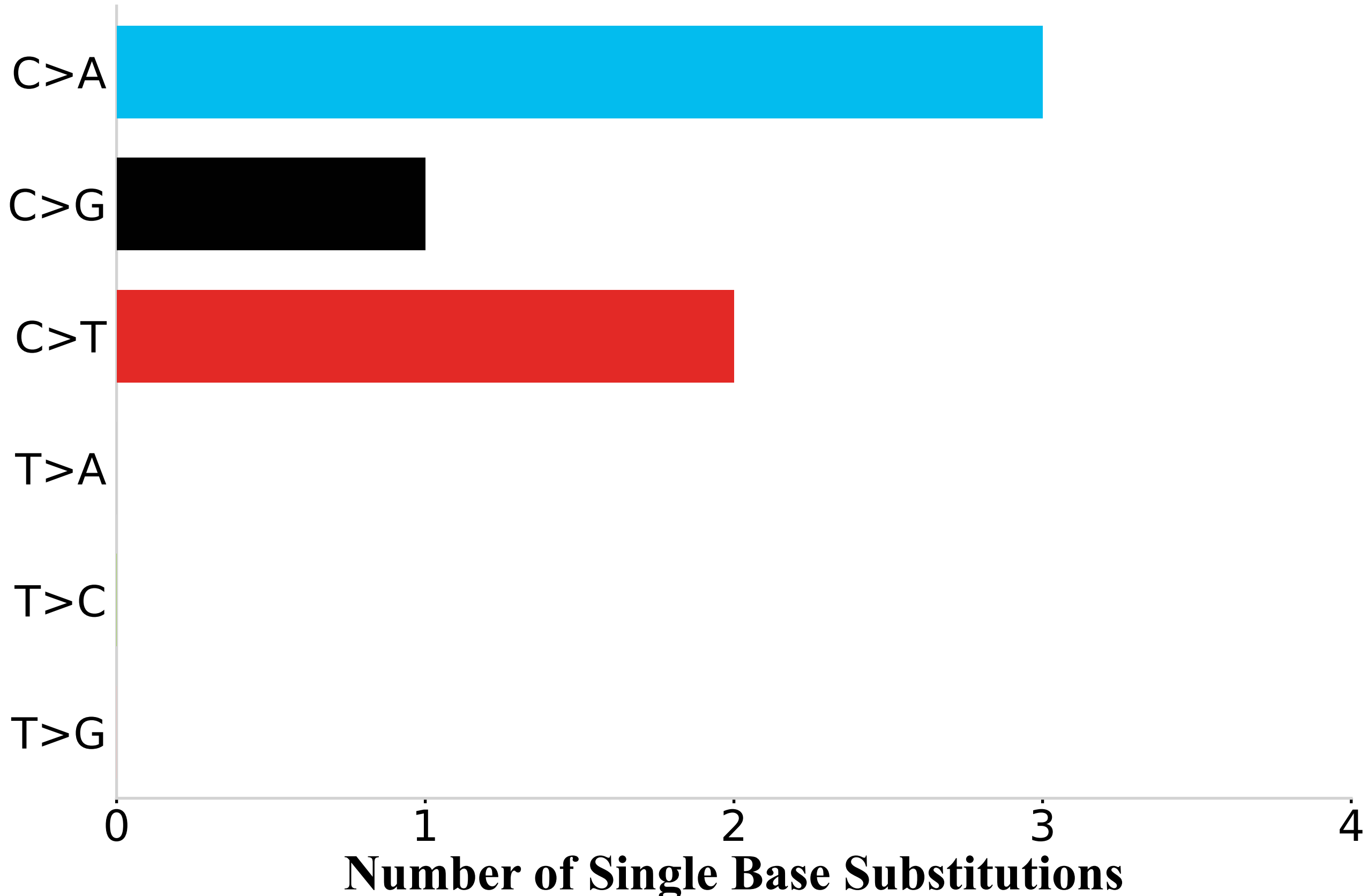
P-0035875-T01-IM6: 4 subs



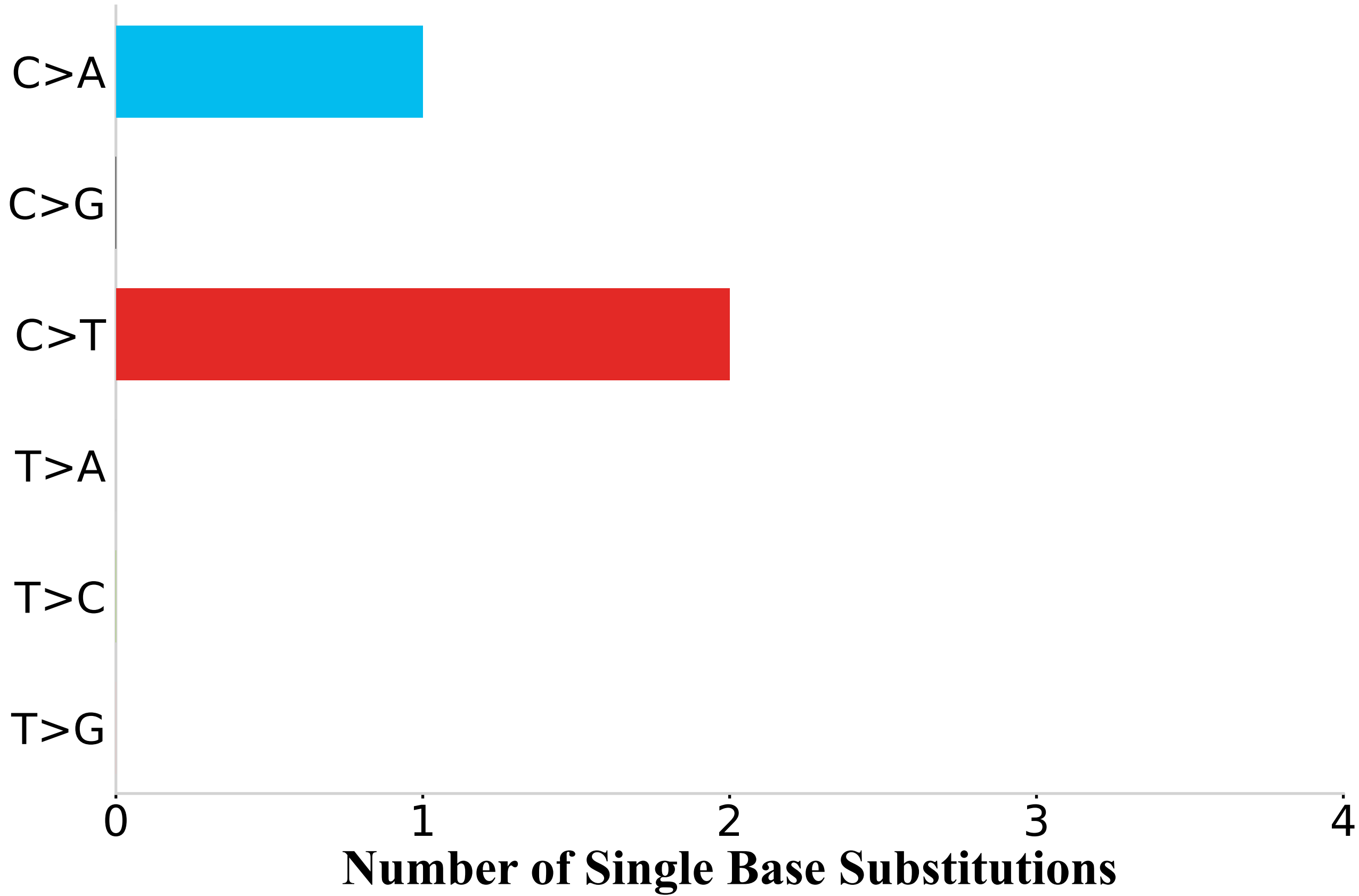
P-0035921-T01-IM6: 8 subs



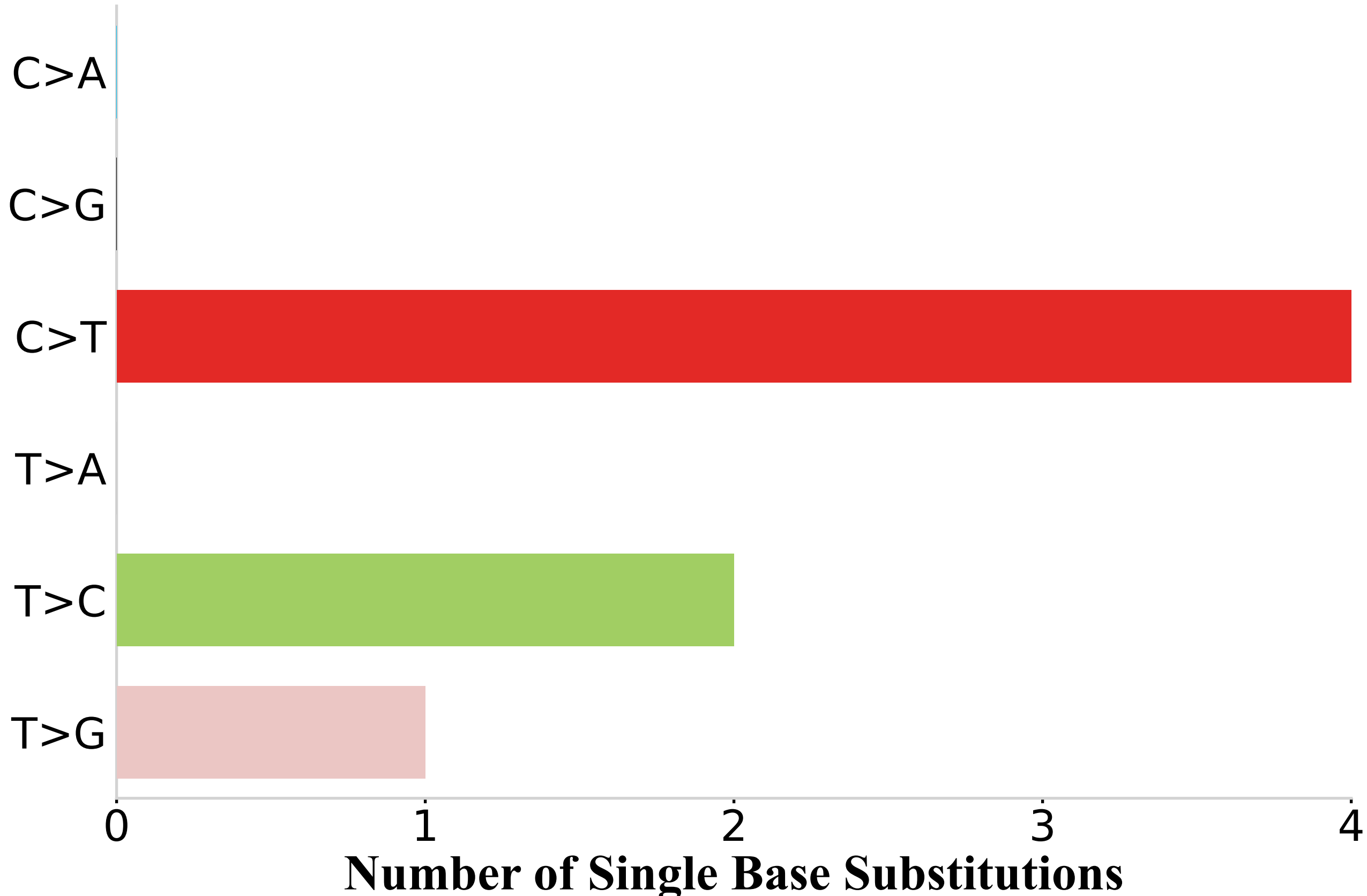
P-0036009-T01-IM6: 6 subs



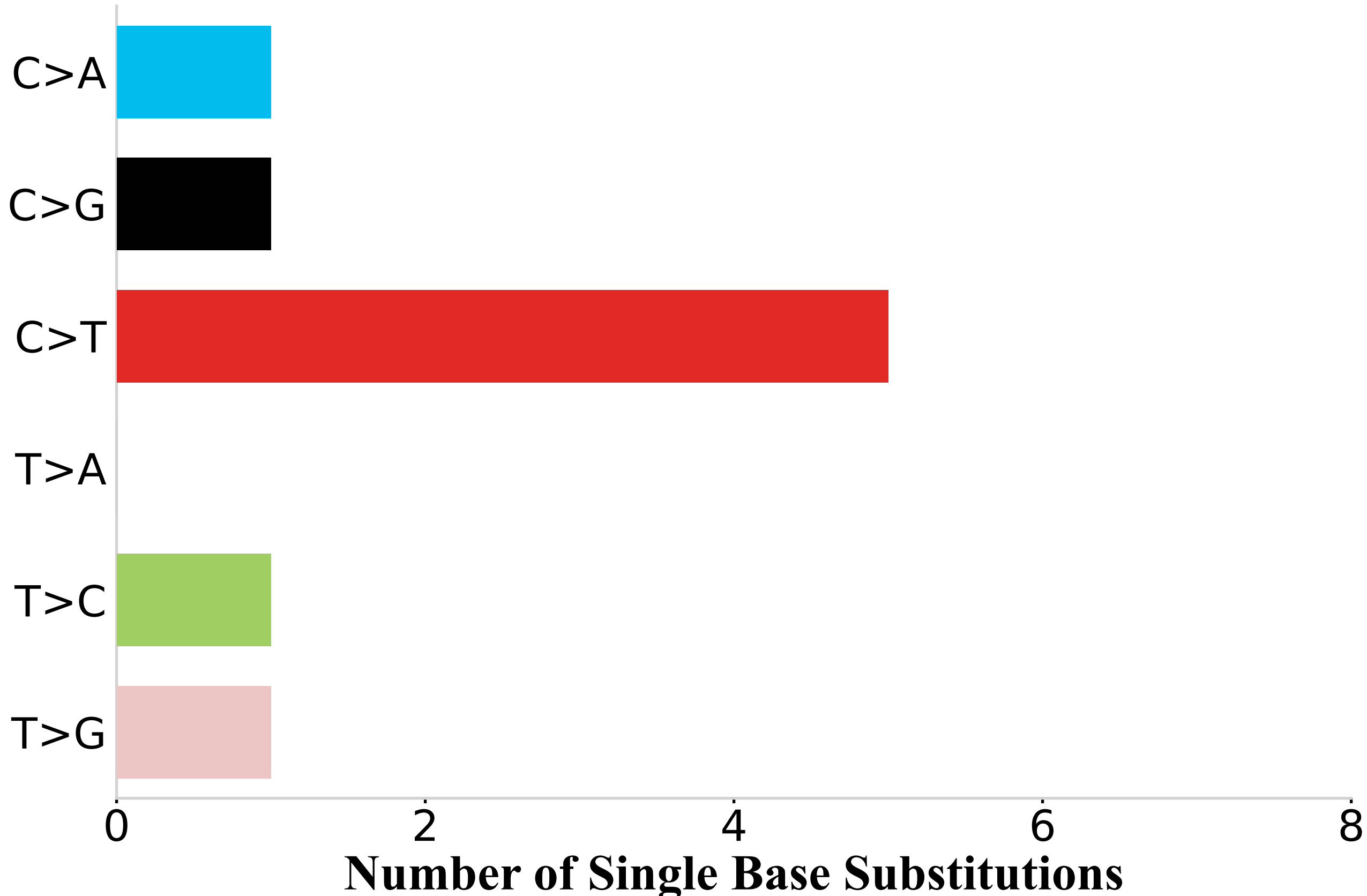
P-0036062-T02-IM6: 3 subs



P-0036212-T01-IM6: 7 subs



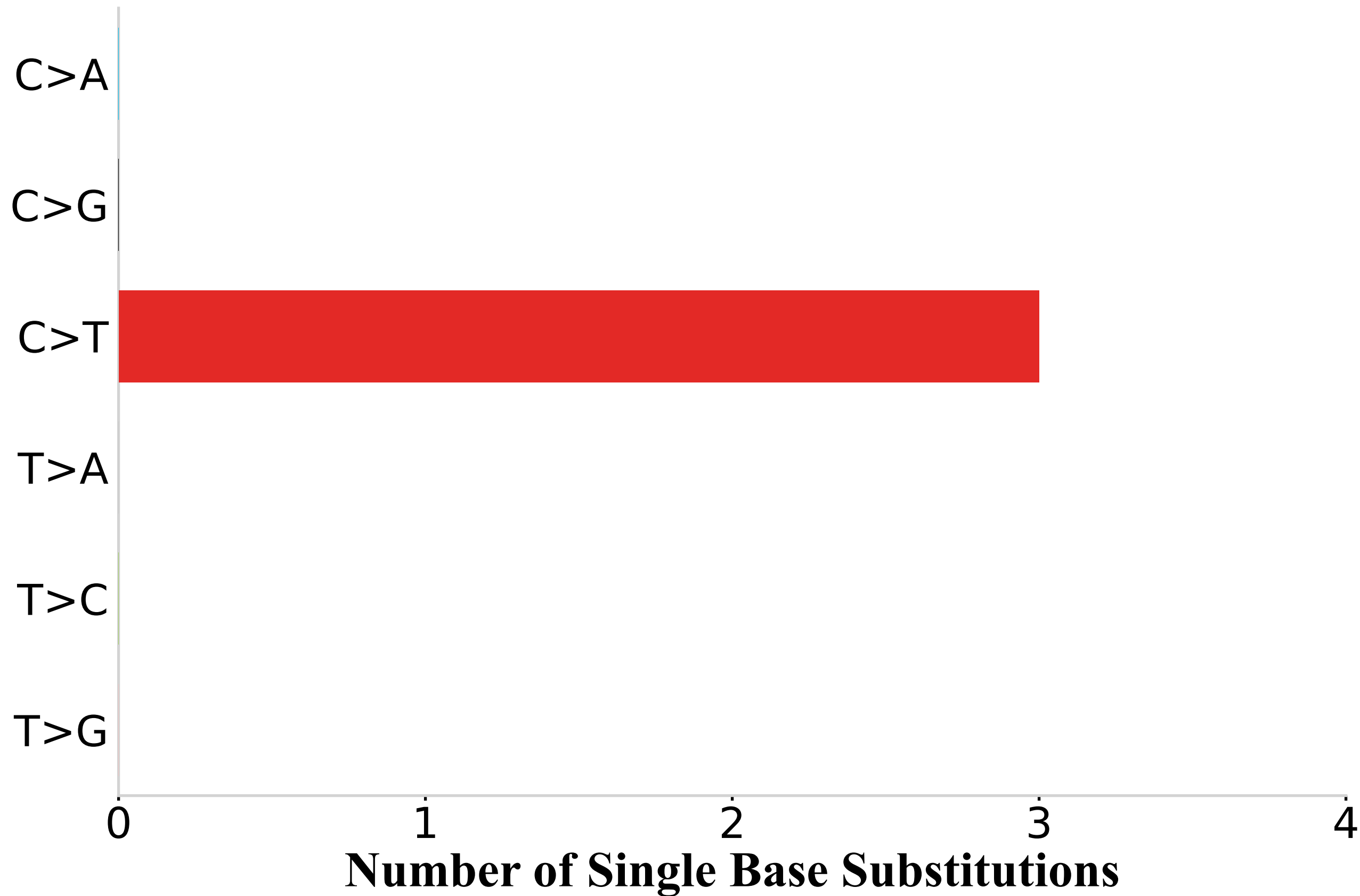
P-0036485-T01-IM6: 9 subs



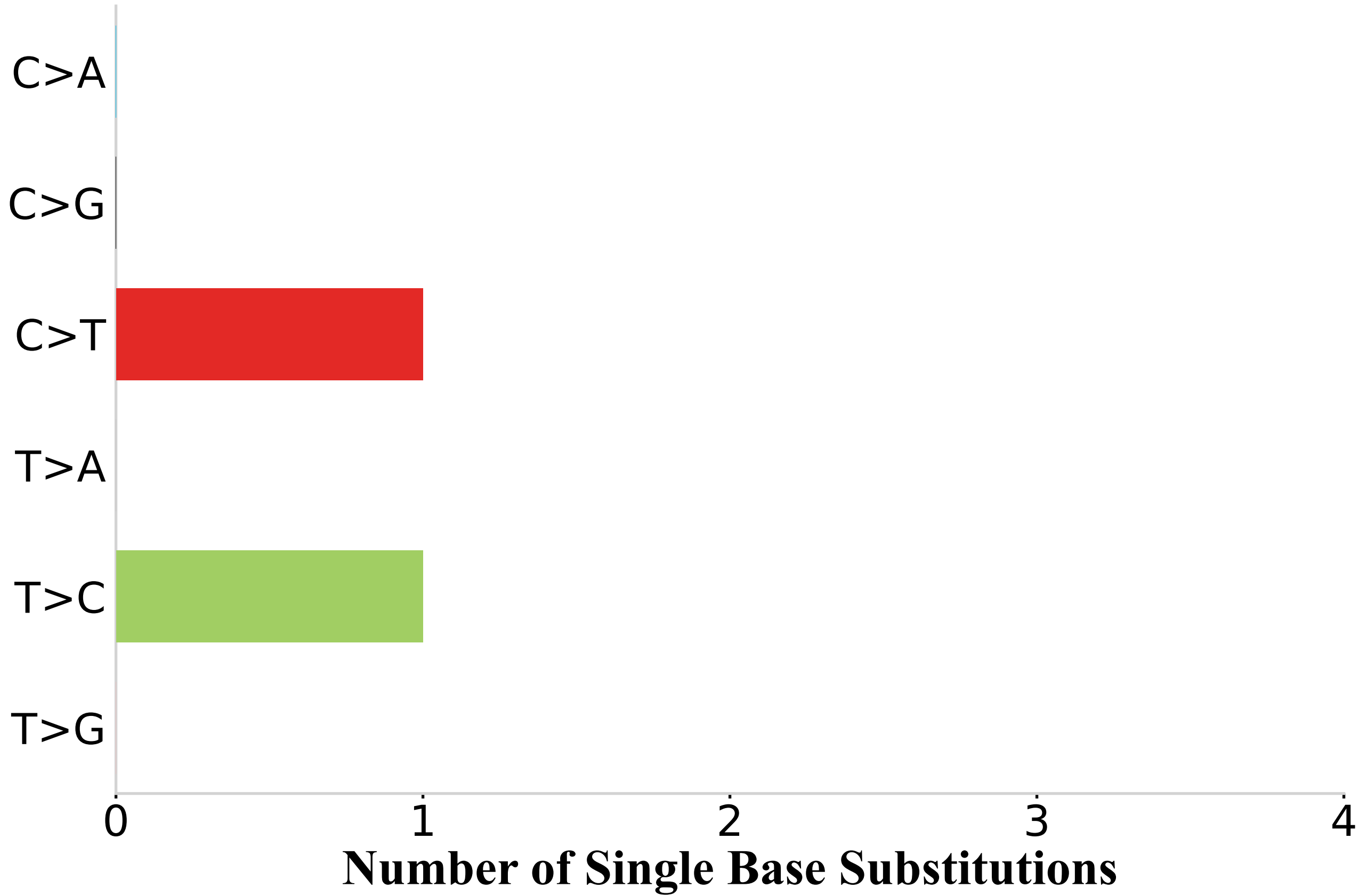
P-0036499-T03-IM6: 12 subs



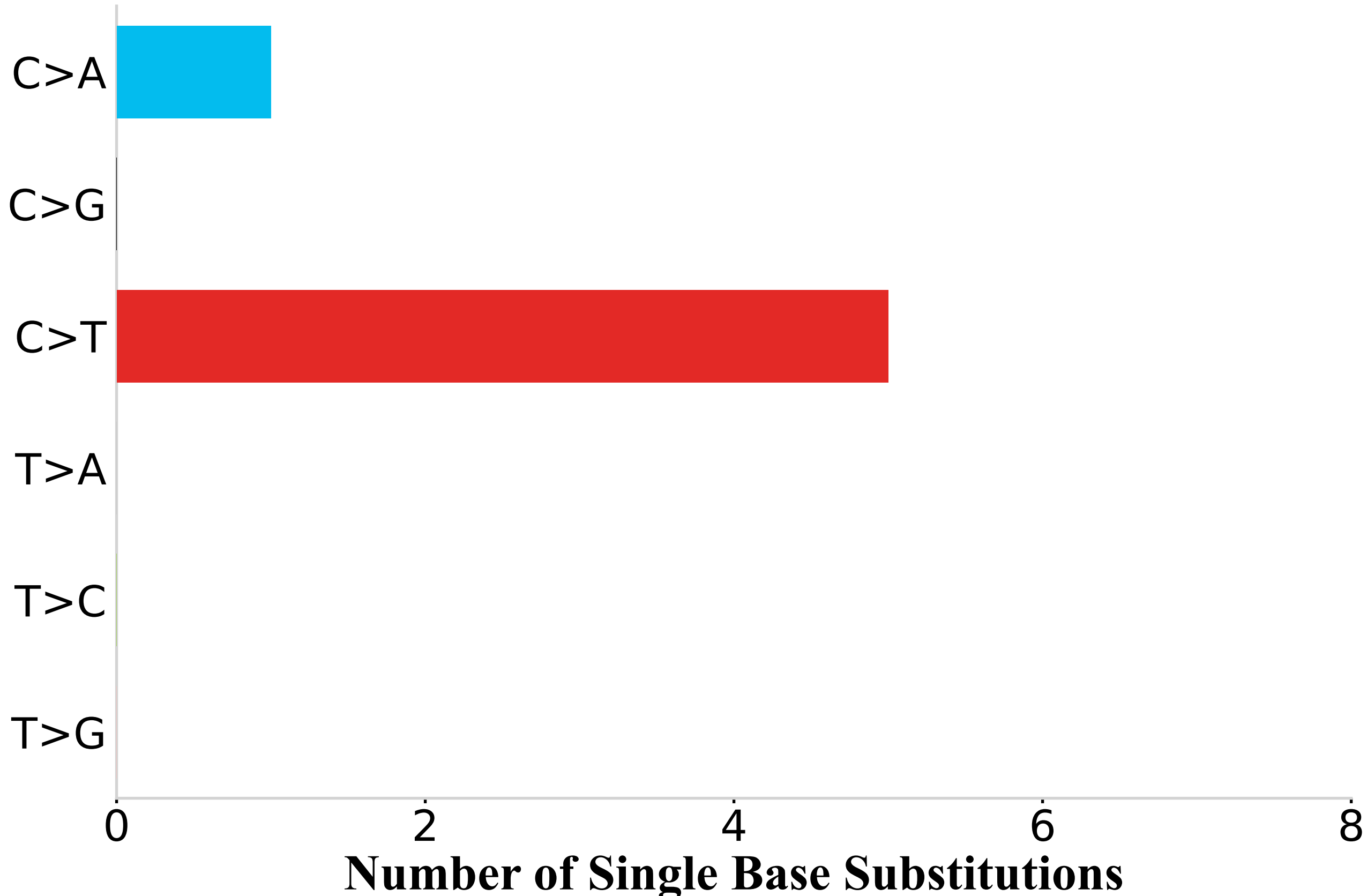
P-0036827-T01-IM6: 3 subs



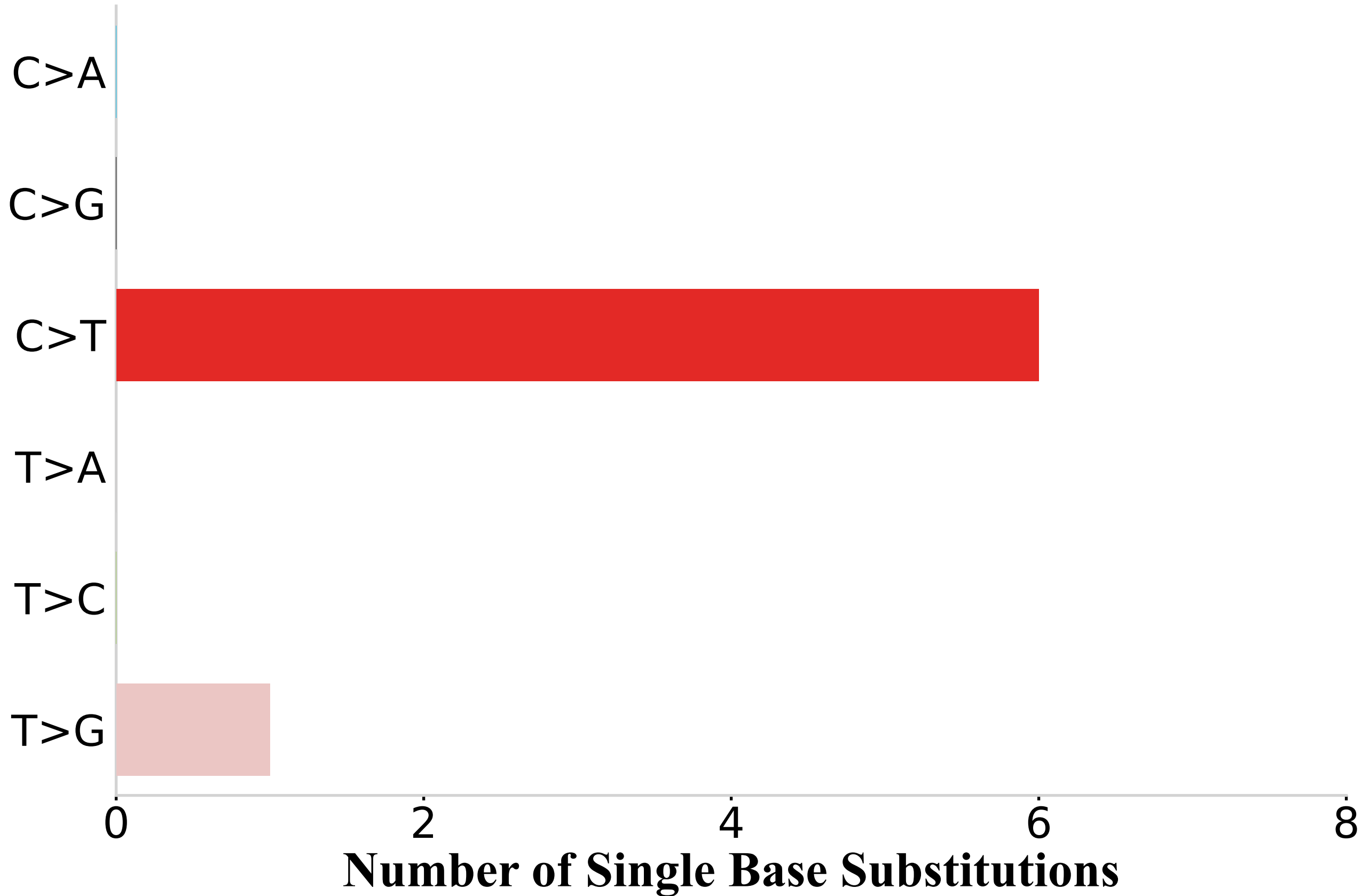
P-0036911-T01-IM6: 2 subs



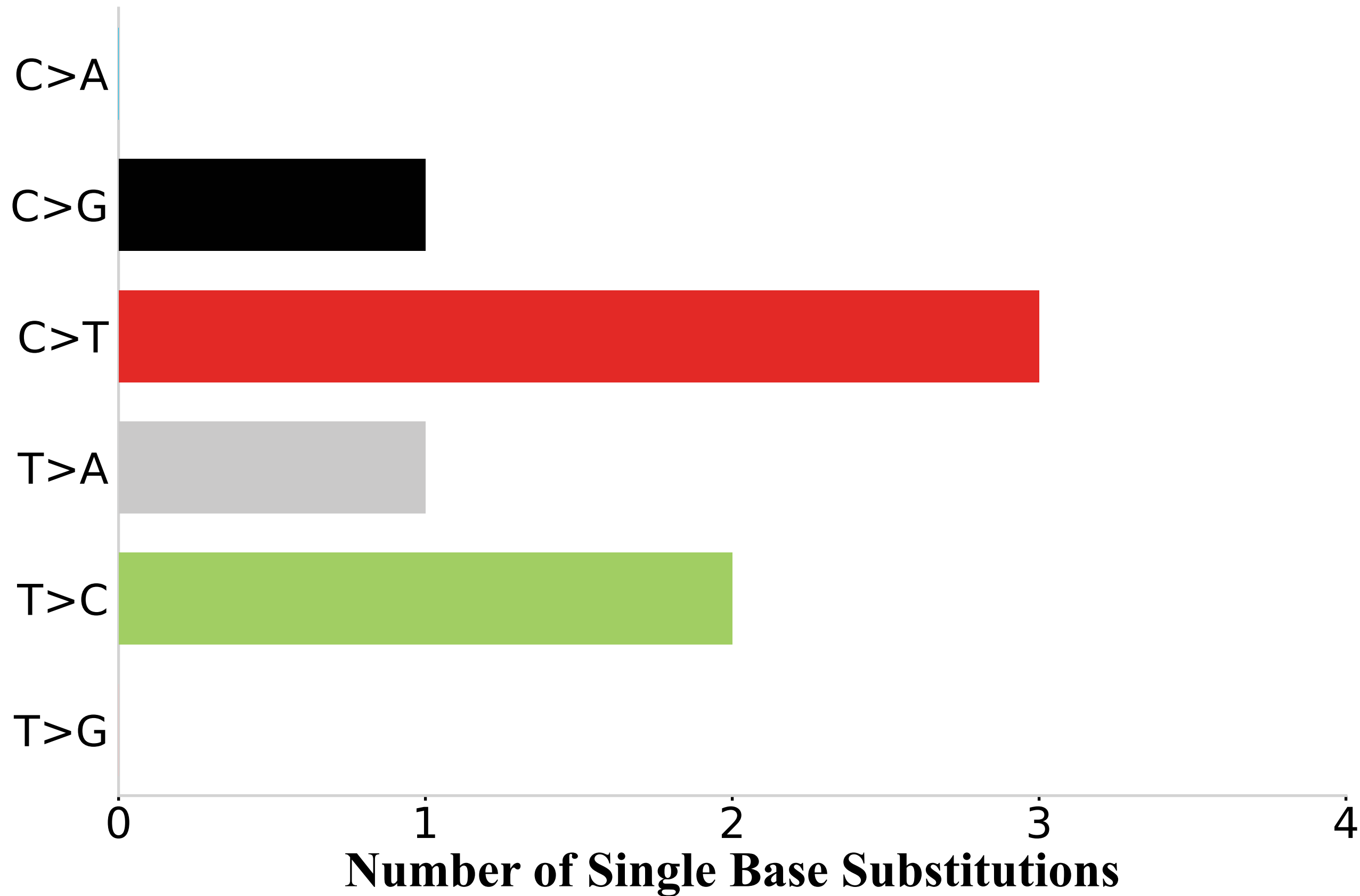
P-0036974-T01-IM6: 6 subs



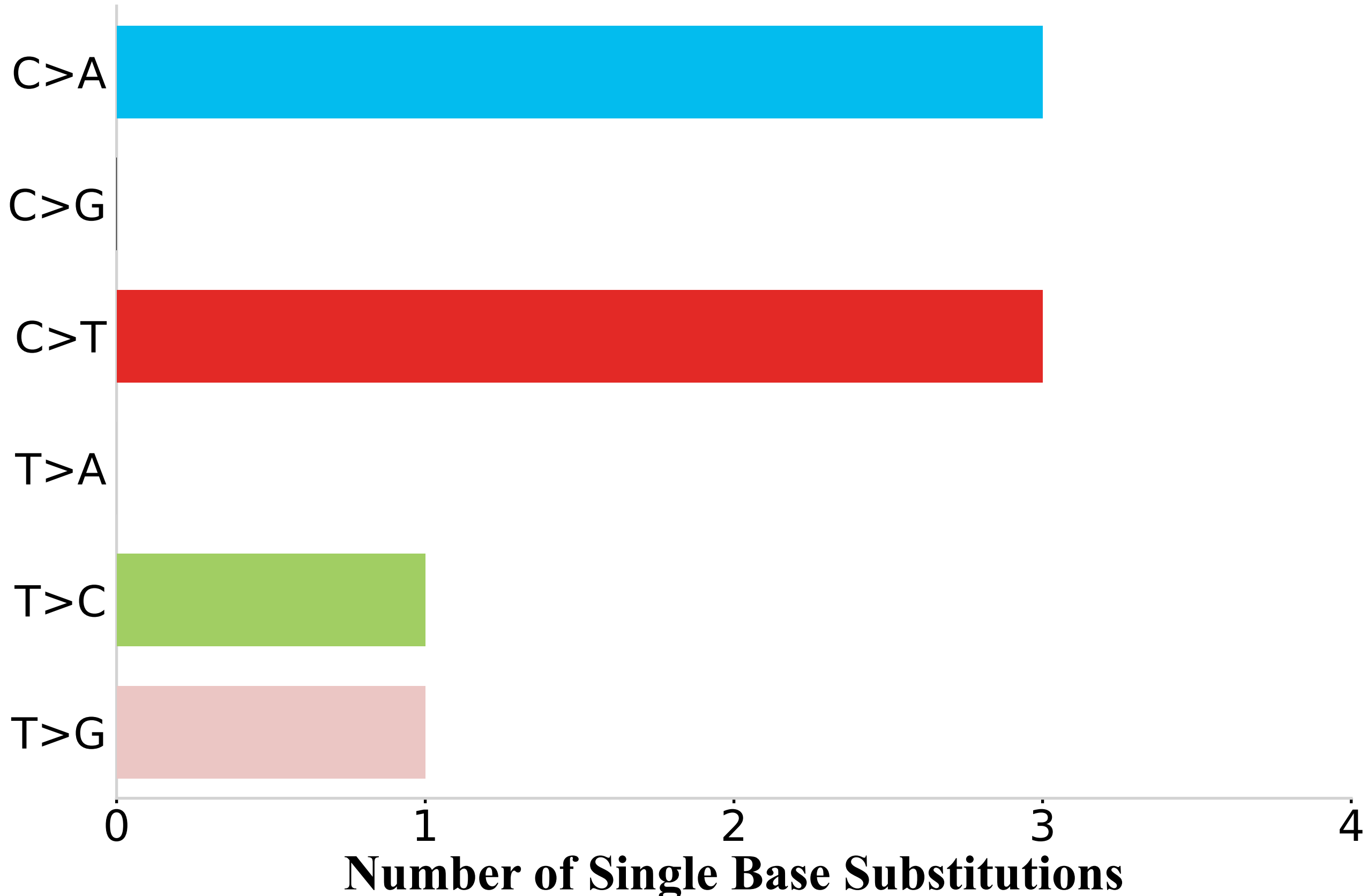
P-0036989-T01-IM6: 7 subs



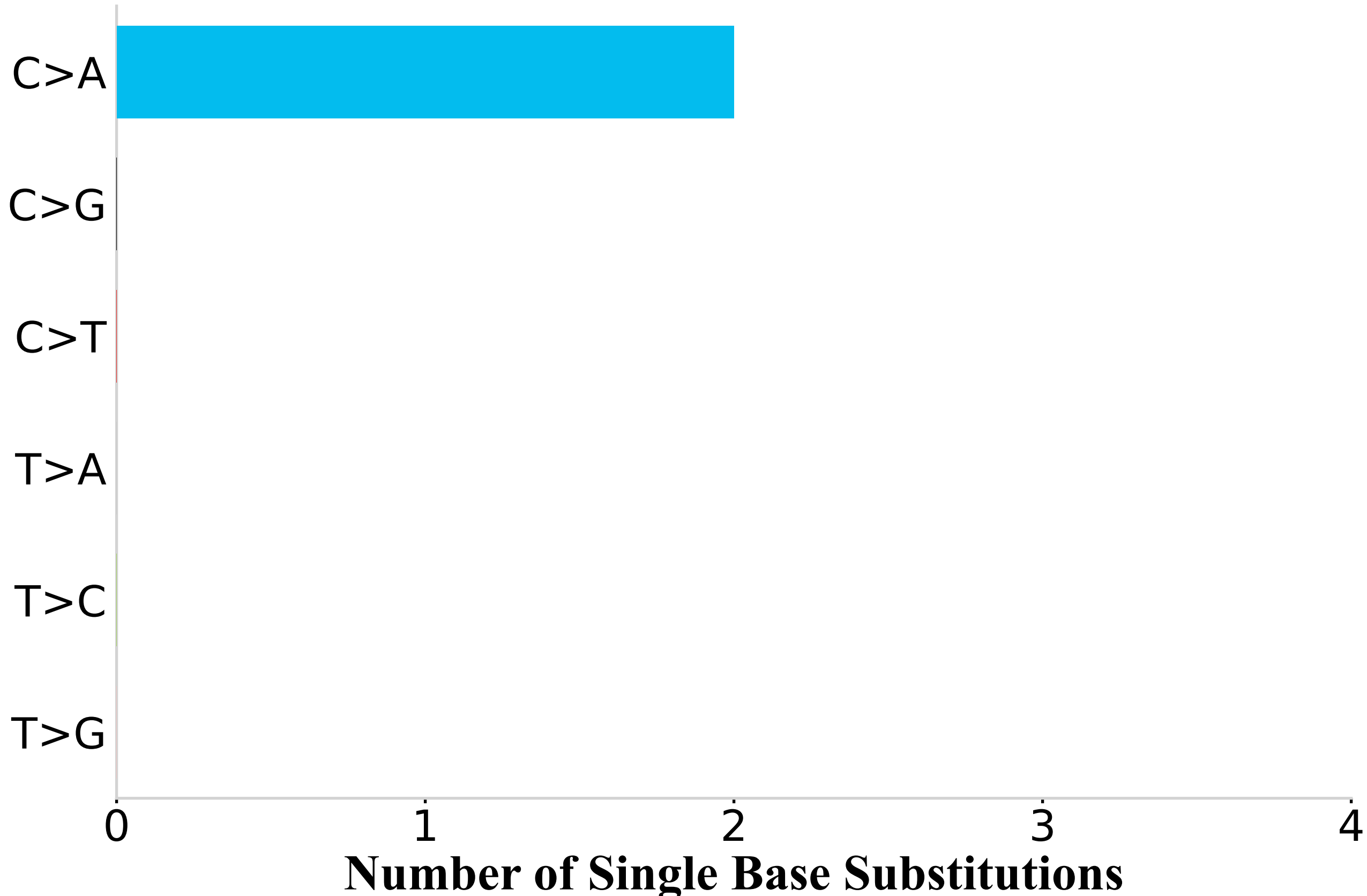
P-0037007-T01-IM6: 7 subs



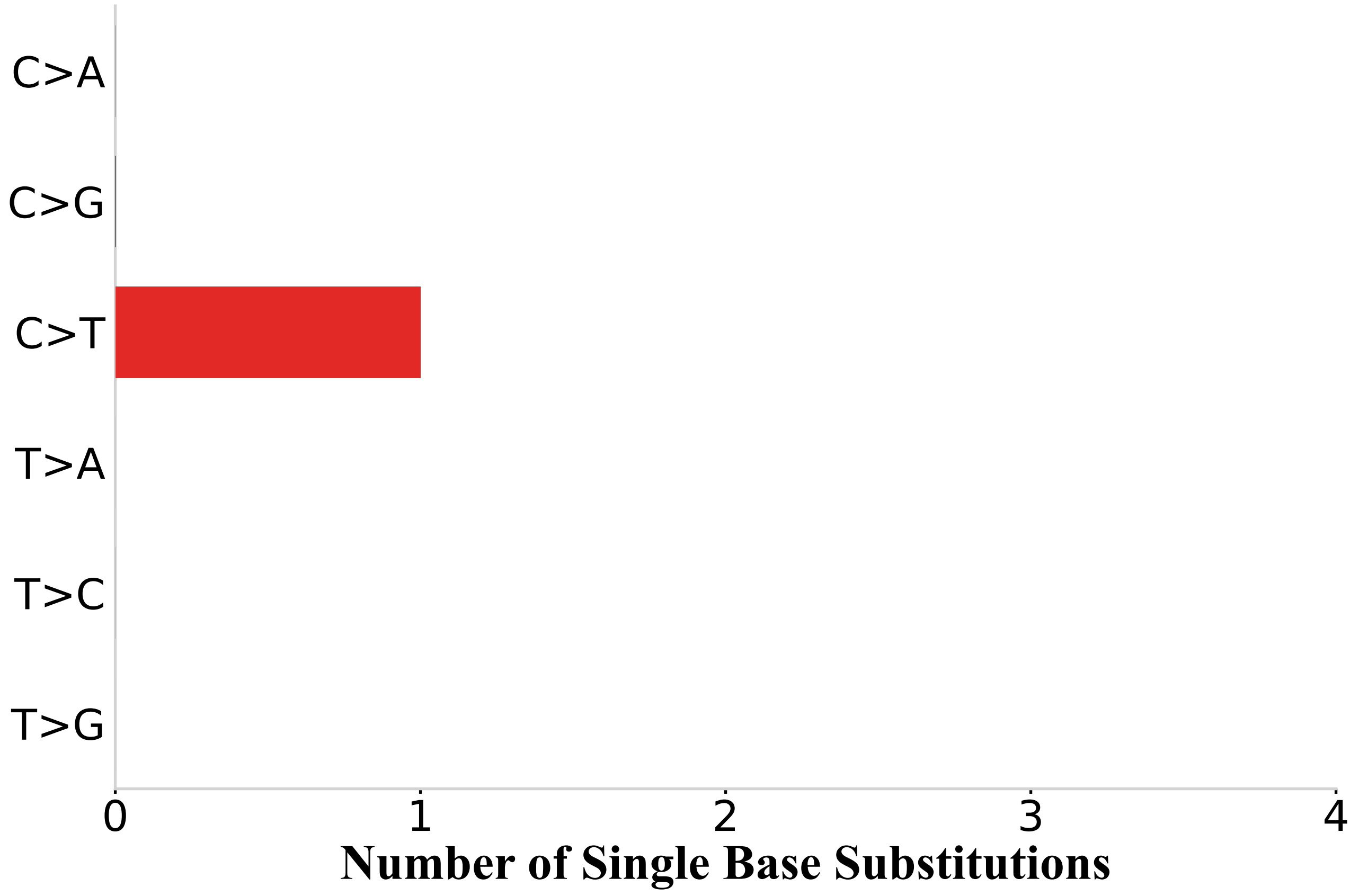
P-0037229-T01-IM6: 8 subs



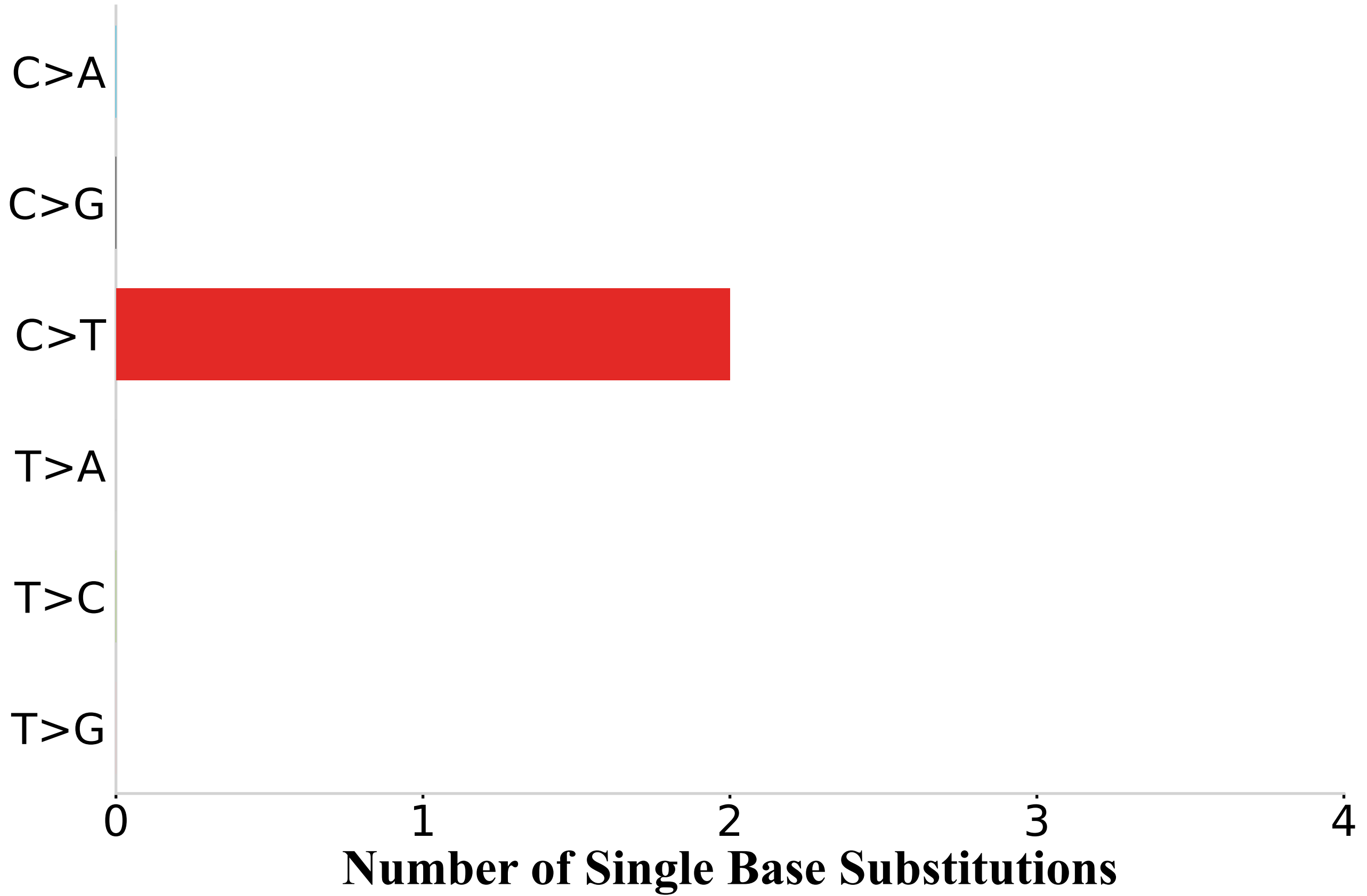
P-0037238-T01-IM6: 2 subs



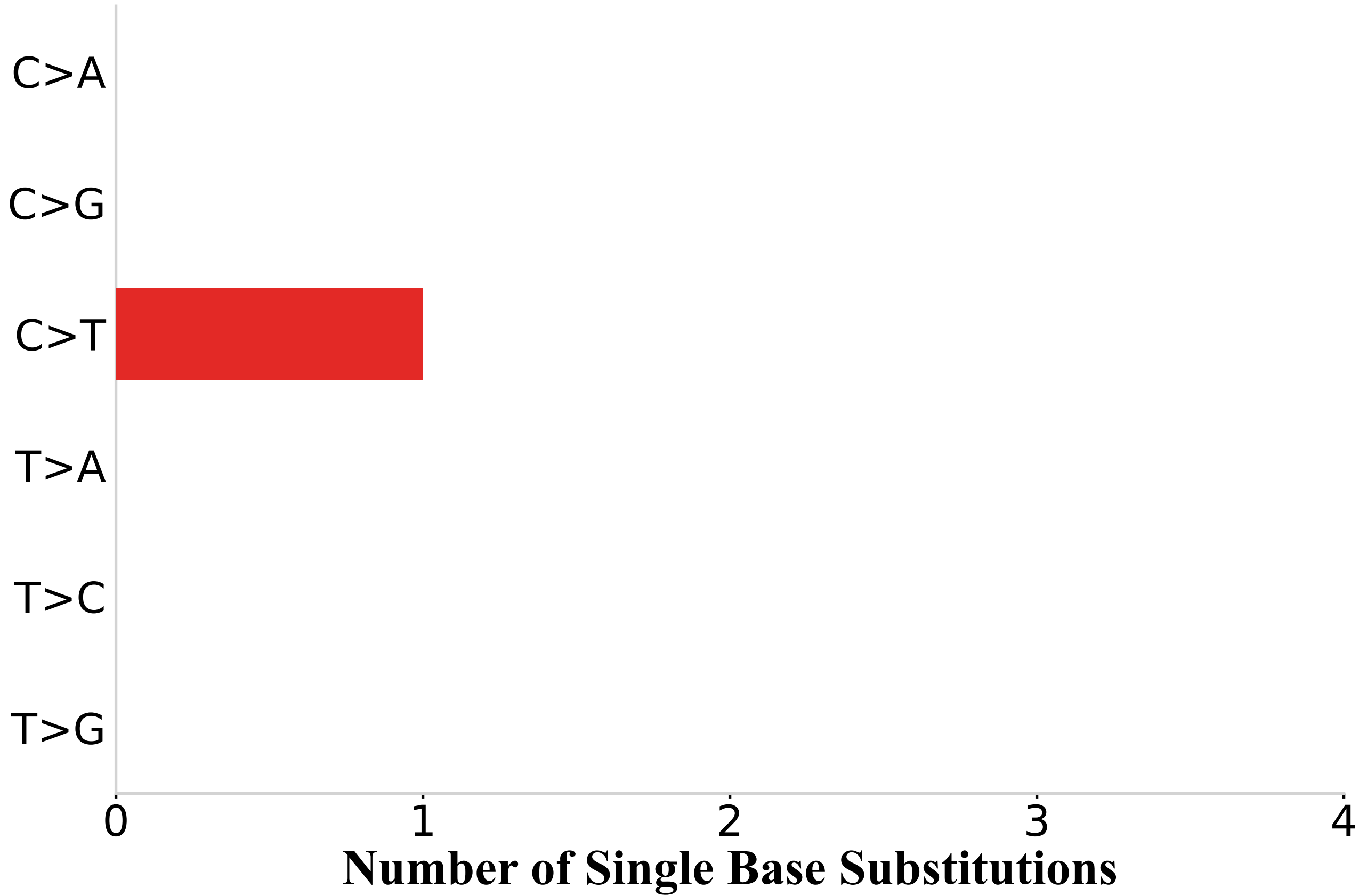
P-0037311-T01-IM6: 1 subs



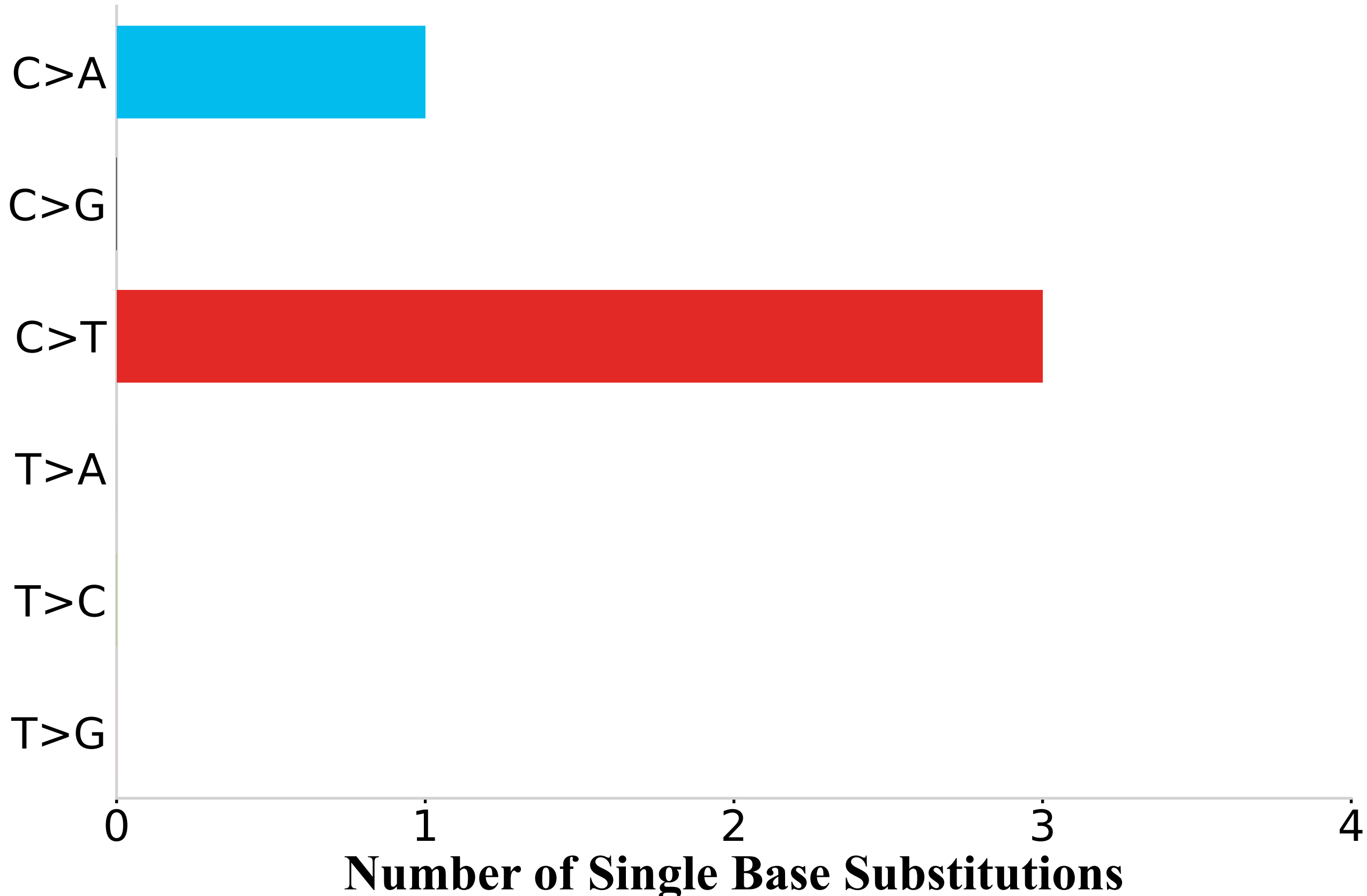
P-0037409-T01-IM6: 2 subs



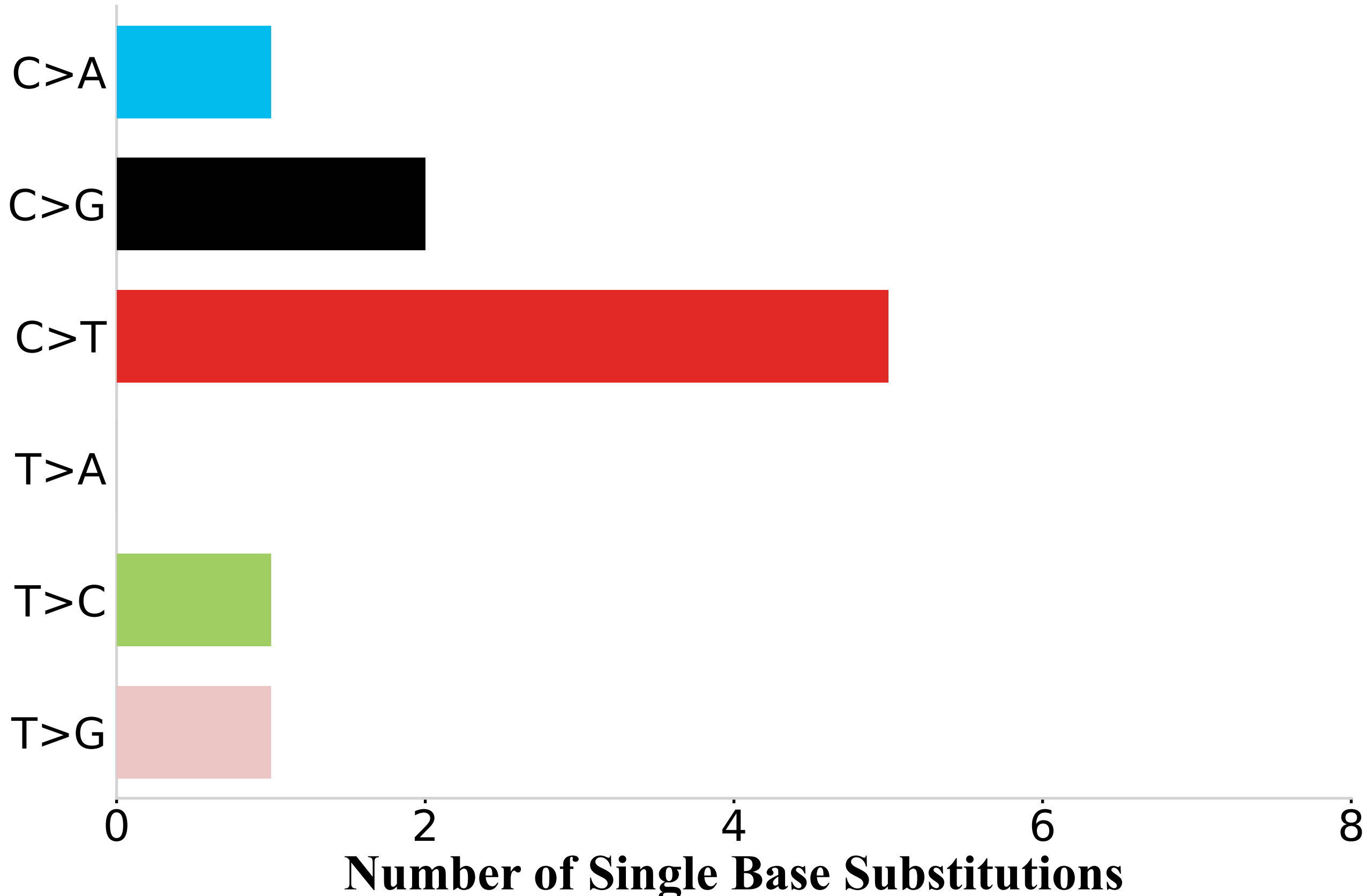
P-0037508-T01-IM6: 1 subs



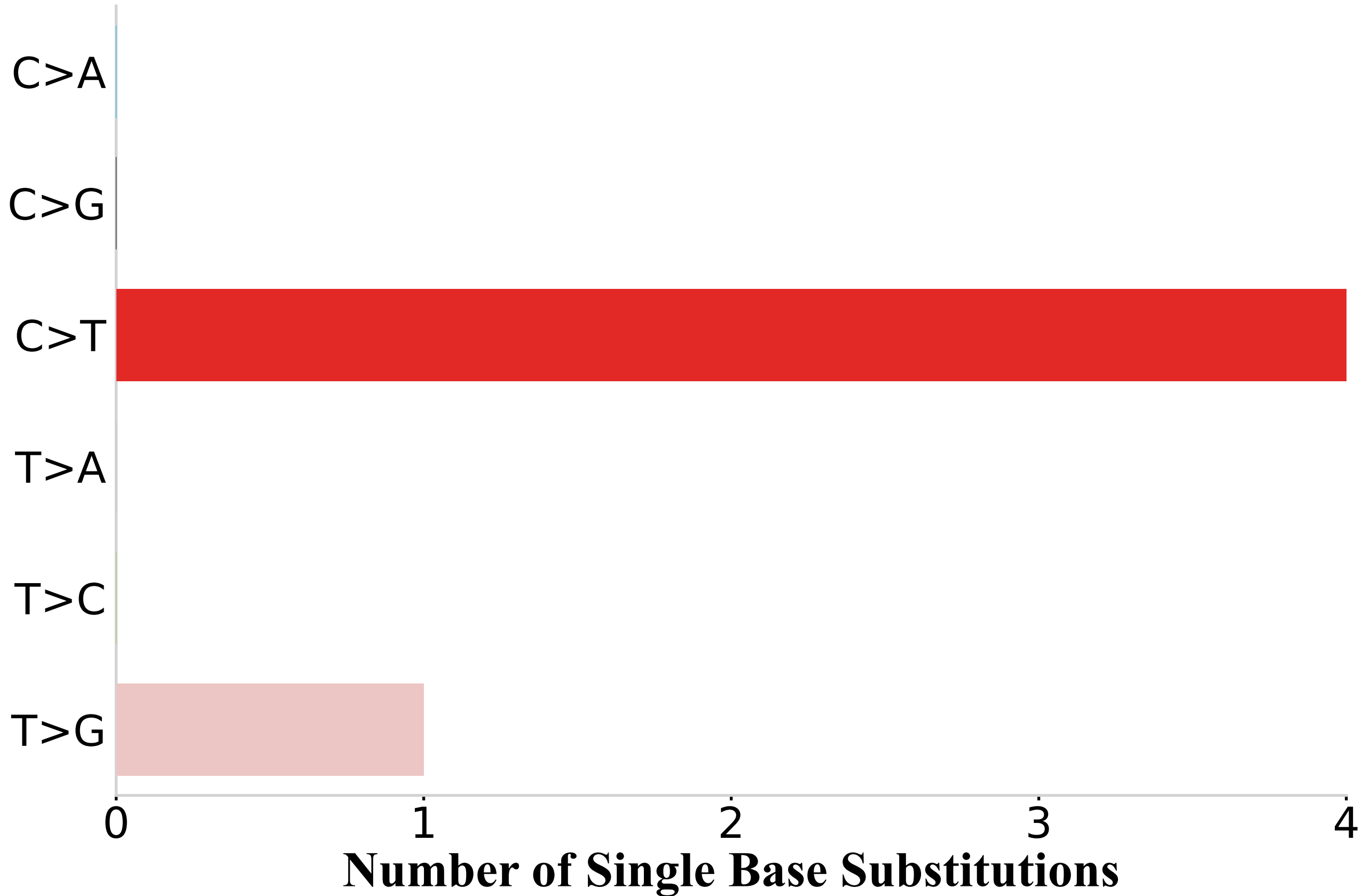
P-0037534-T01-IM6: 4 subs



P-0037535-T01-IM6: 10 subs



P-0037601-T01-IM6: 5 subs



P-0037621-T01-IM6: 4 subs

C>A

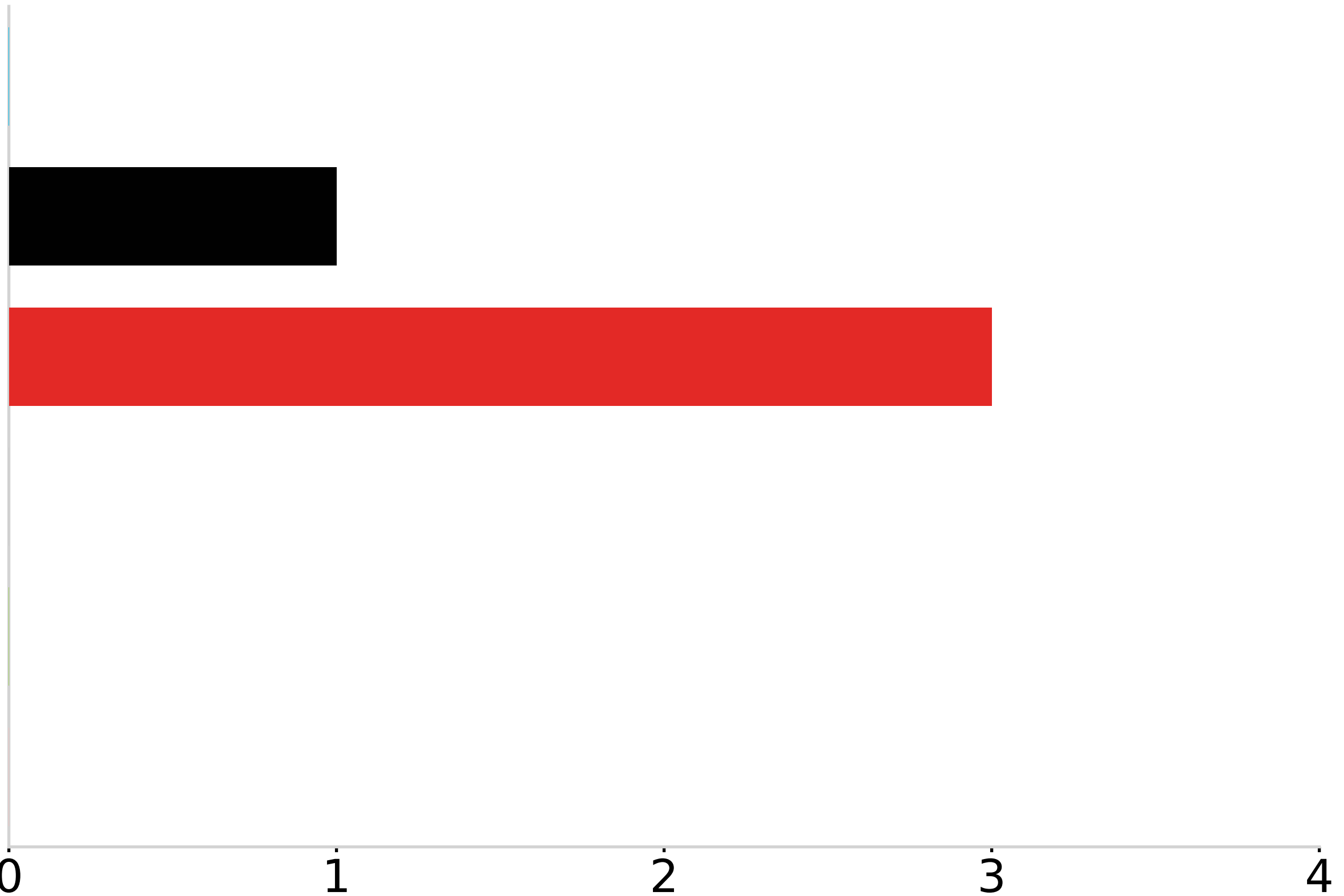
C>G

C>T

T>A

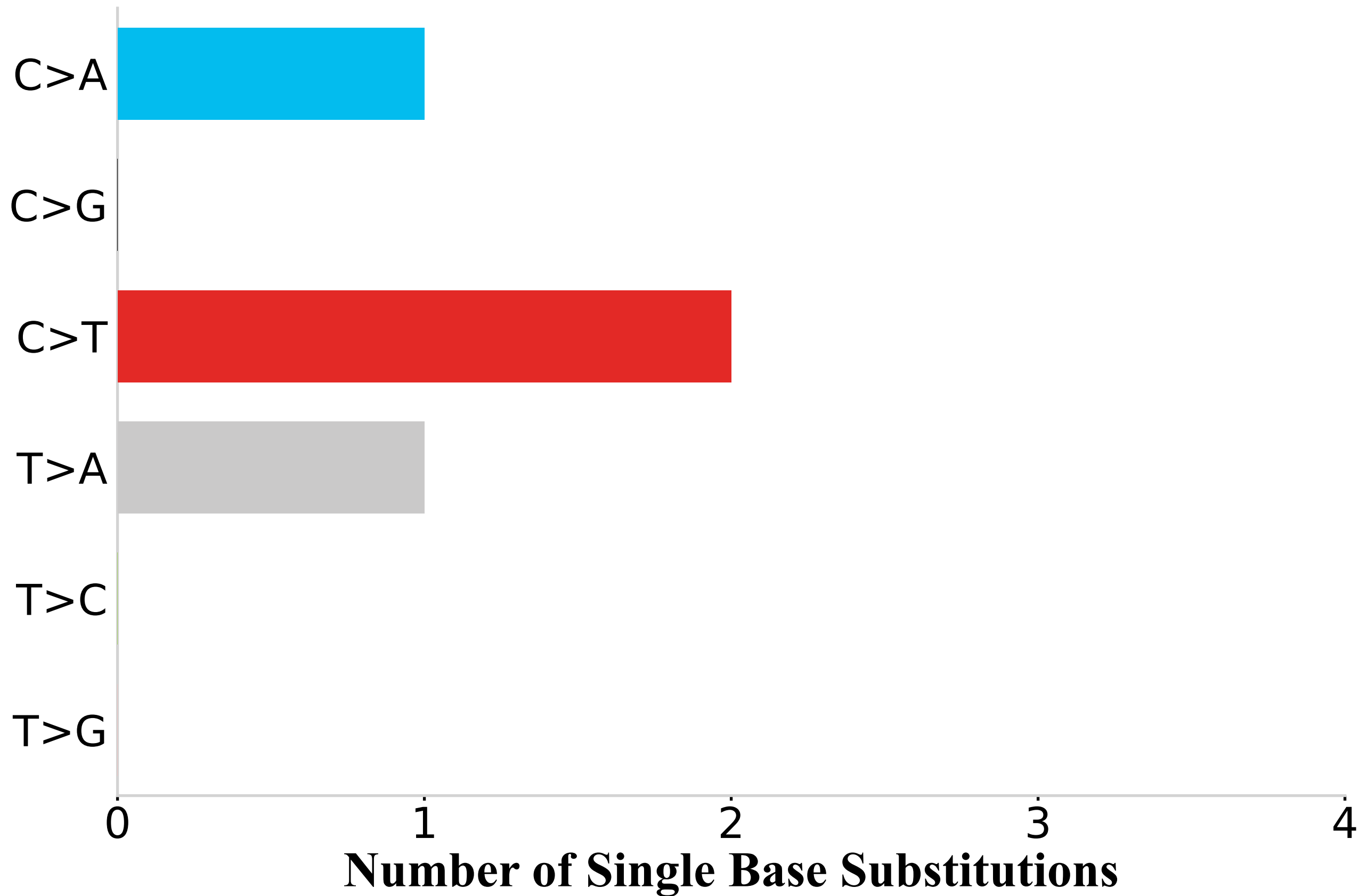
T>C

T>G

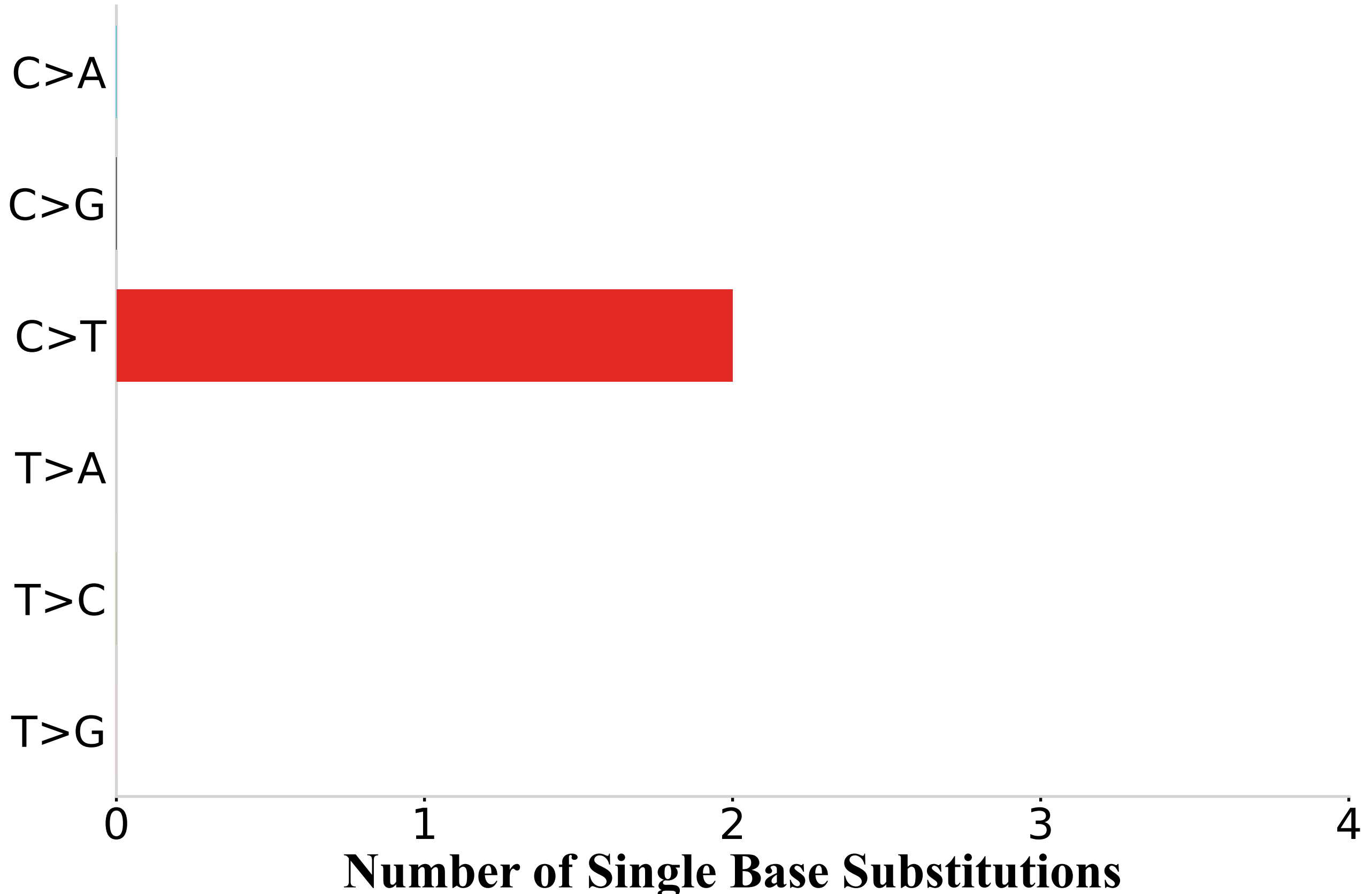


Number of Single Base Substitutions

P-0037688-T01-IM6: 4 subs



P-0037737-T01-IM6: 2 subs



P-0037739-T01-IM6: 3 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

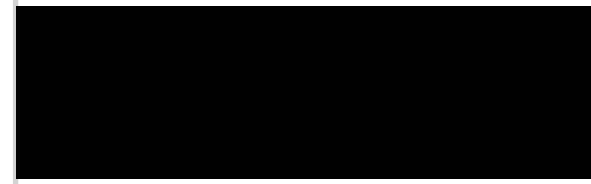
1

2

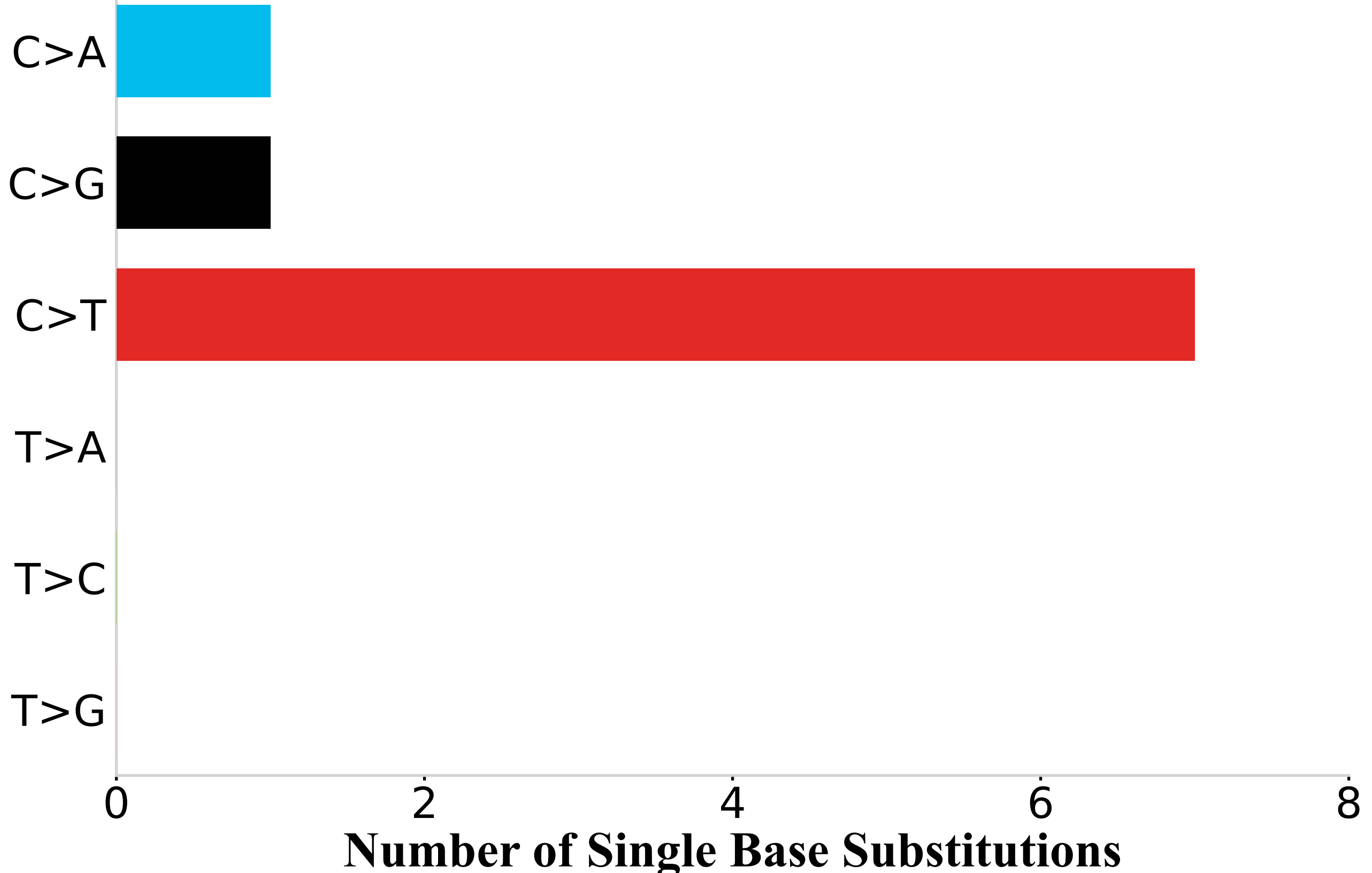
3

4

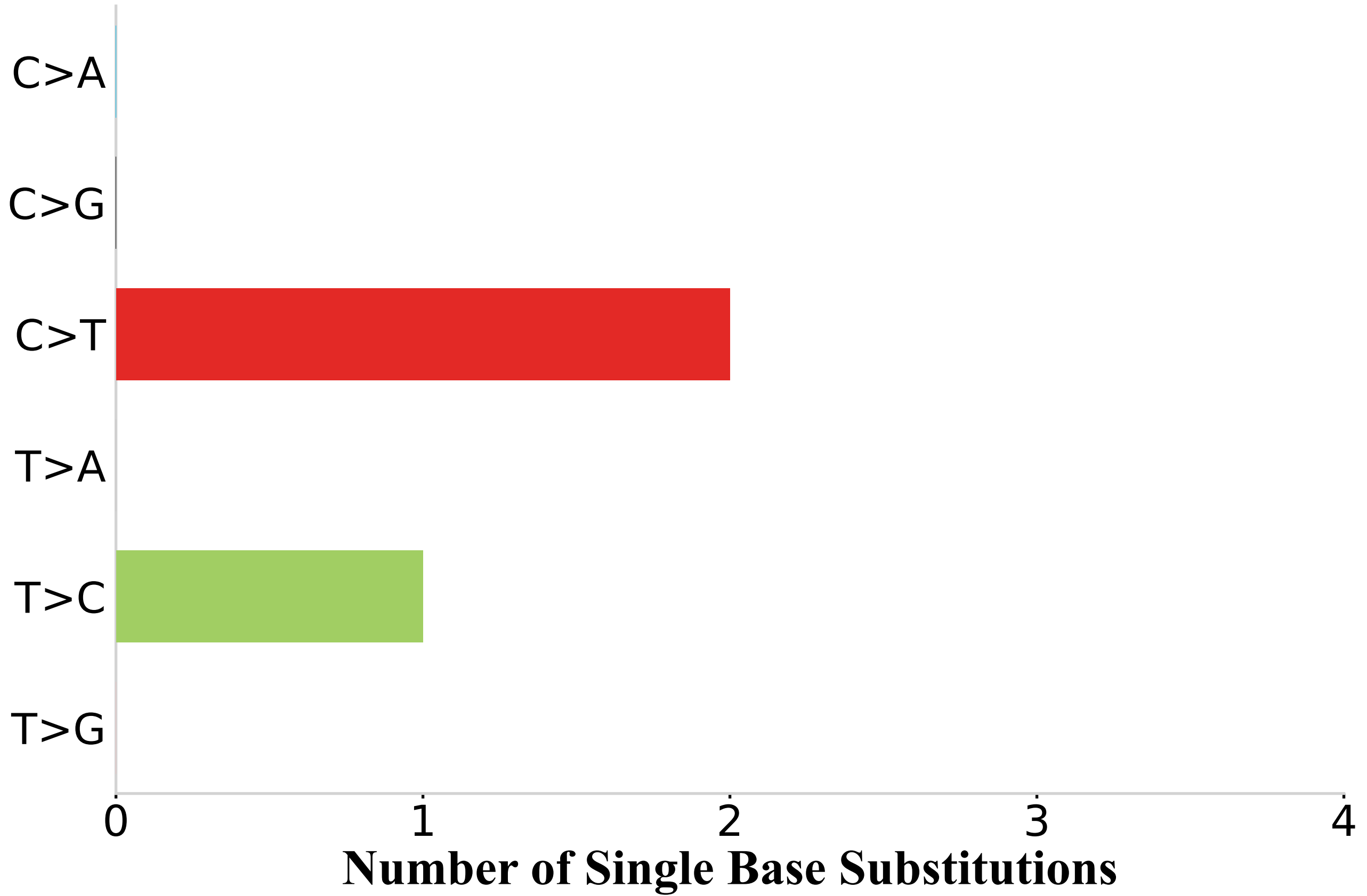
Number of Single Base Substitutions



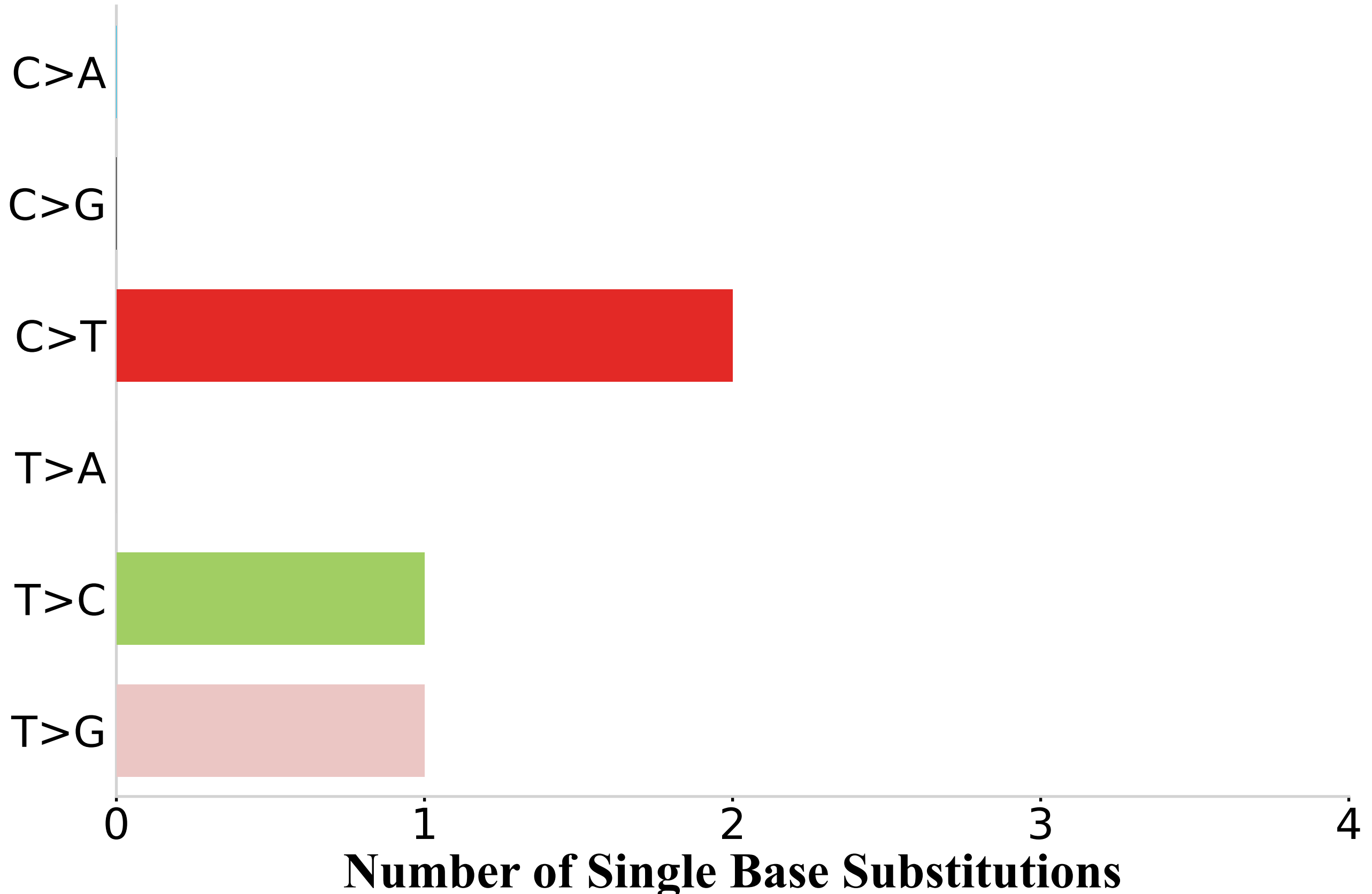
P-0037777-T01-IM6: 9 subs



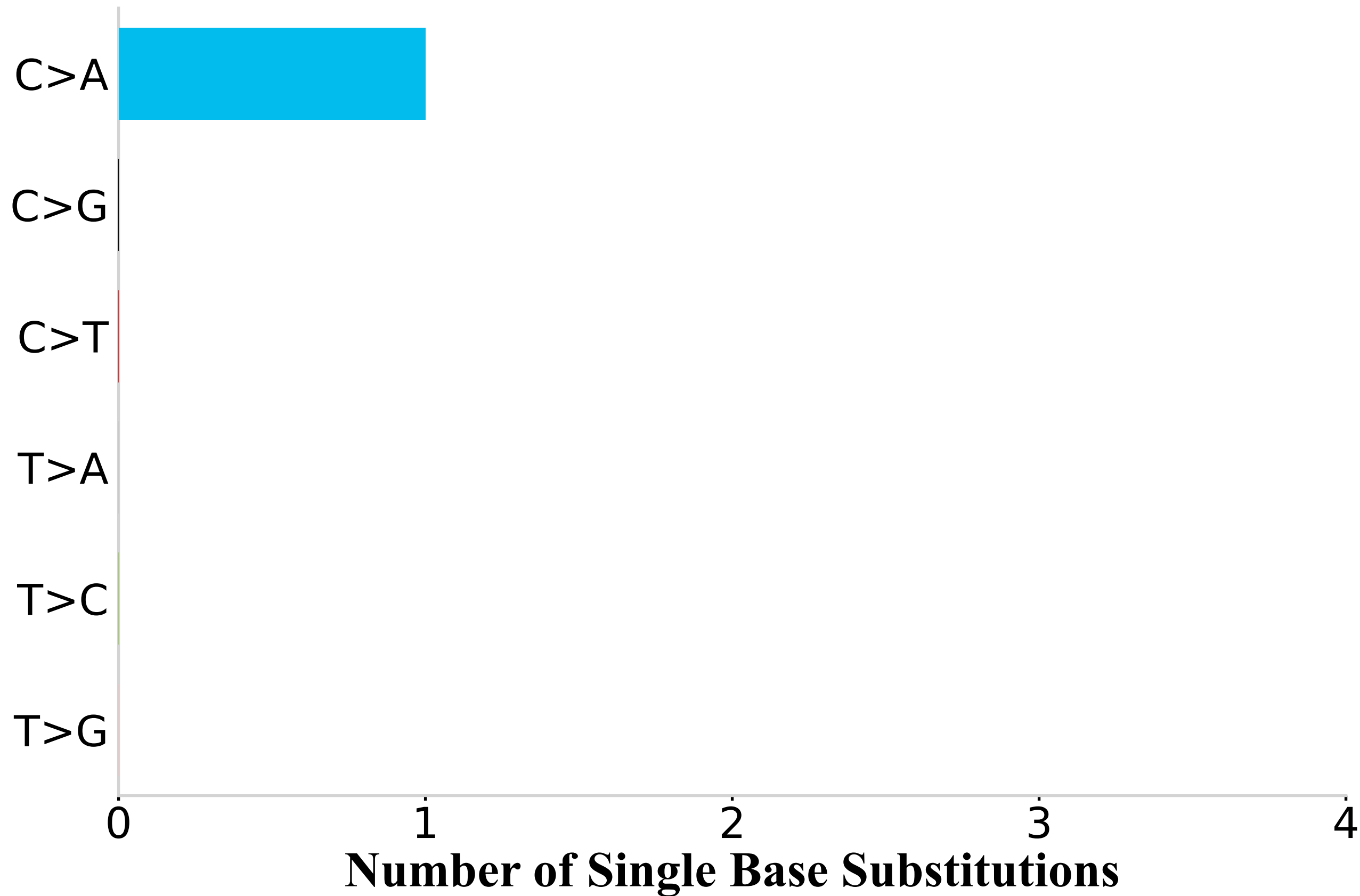
P-0038081-T01-IM6: 3 subs



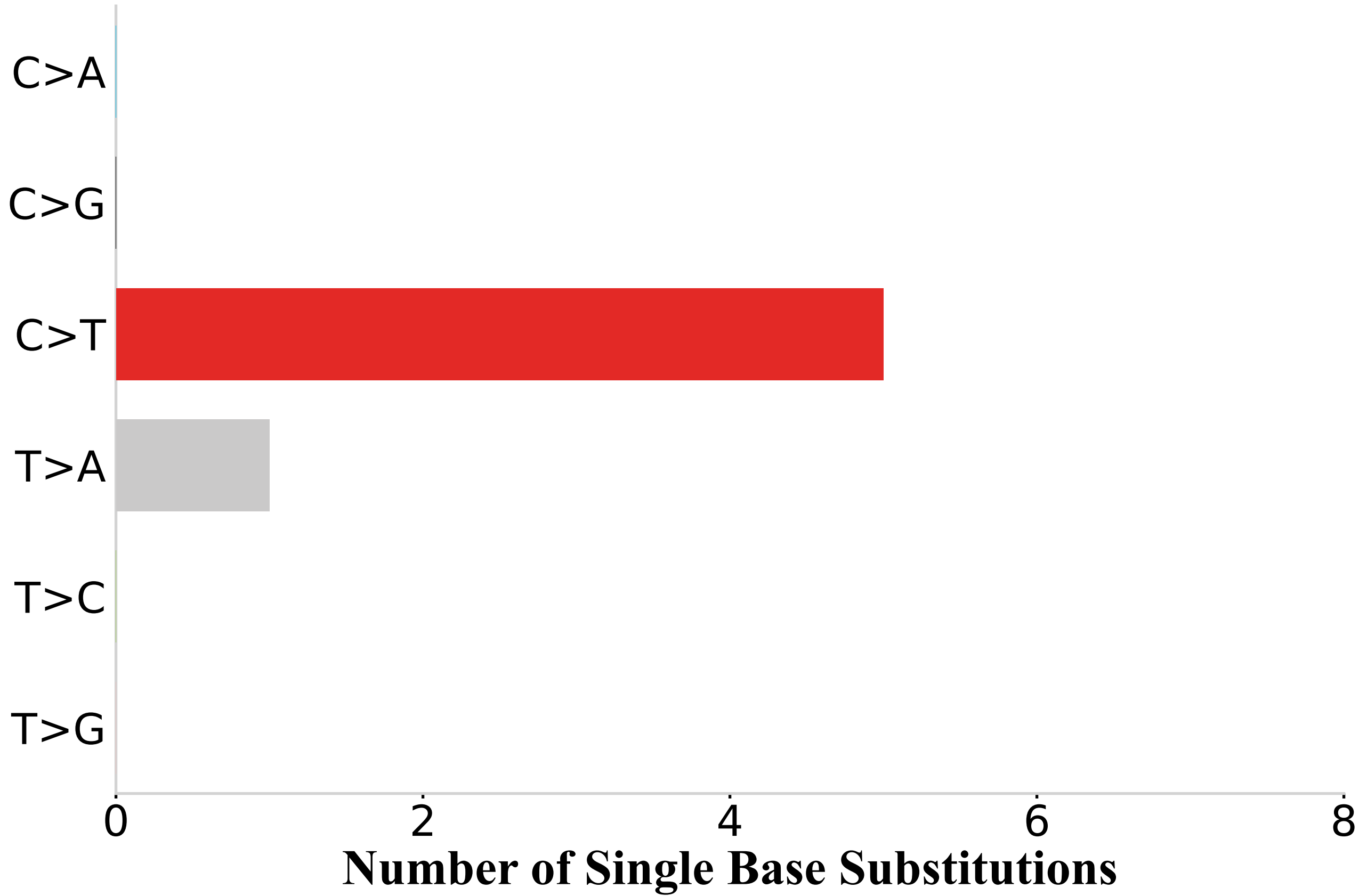
P-0038124-T01-IM6: 4 subs



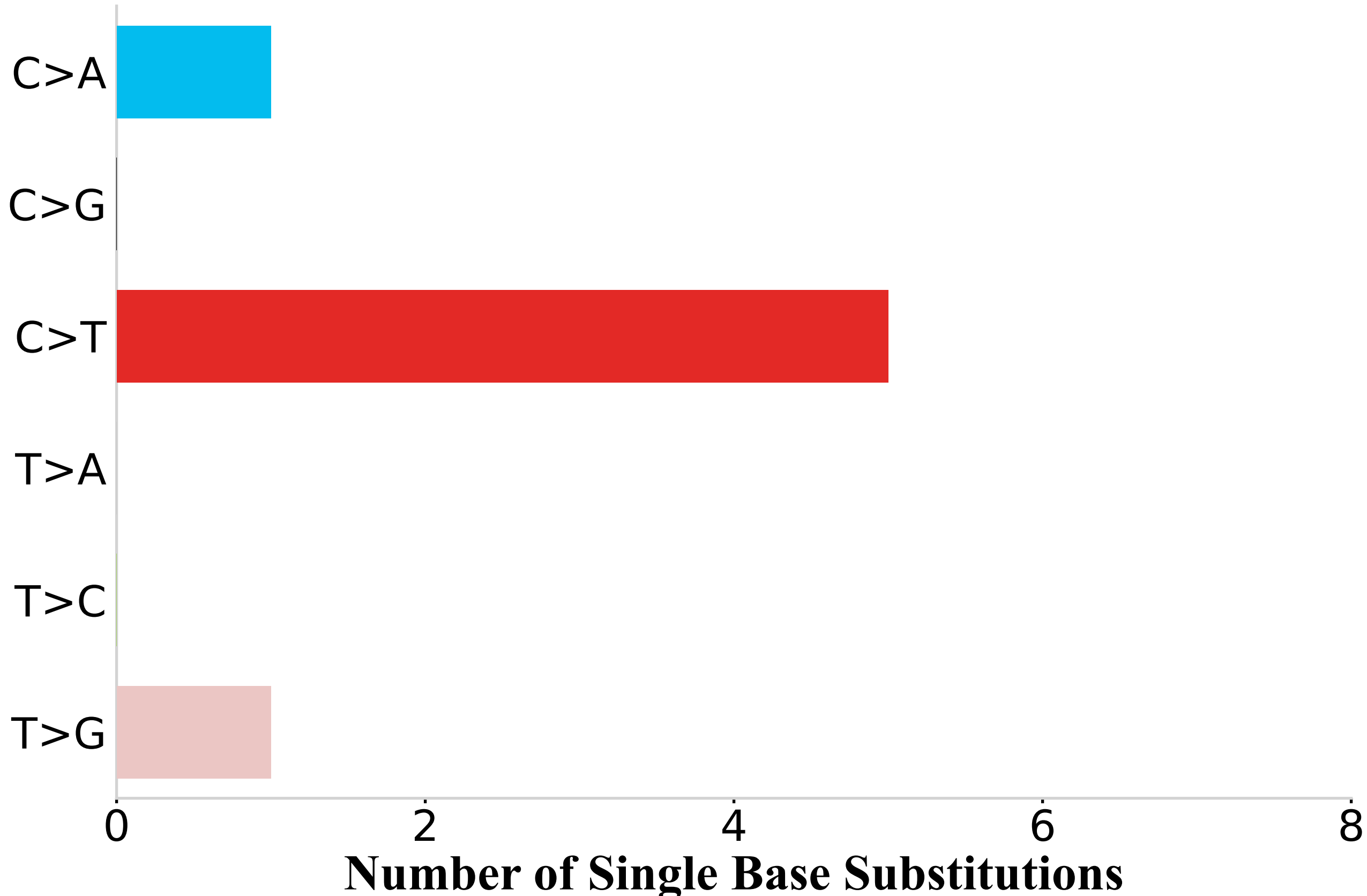
P-0038150-T01-IM6: 1 subs



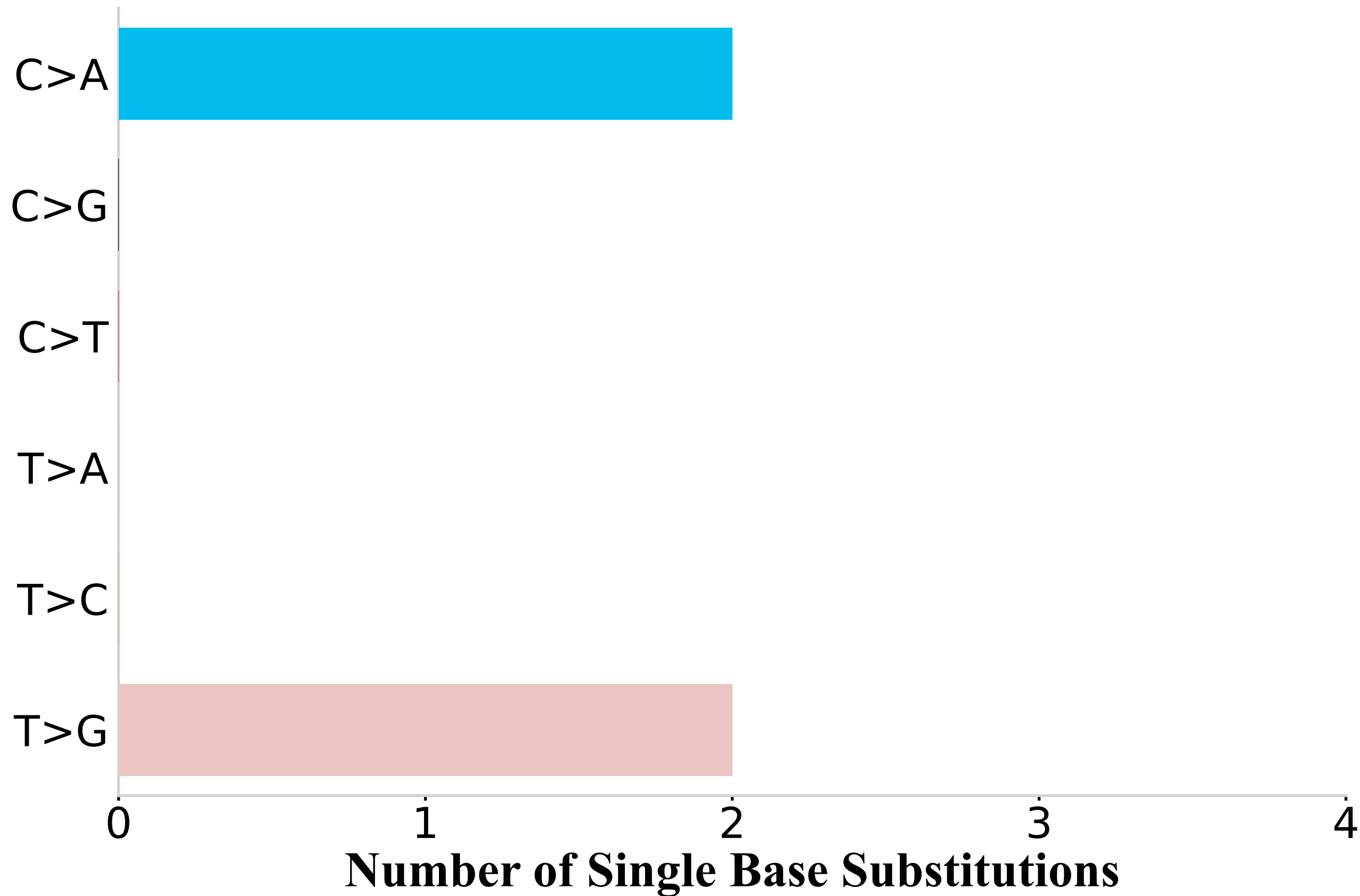
P-0038204-T01-IM6: 6 subs



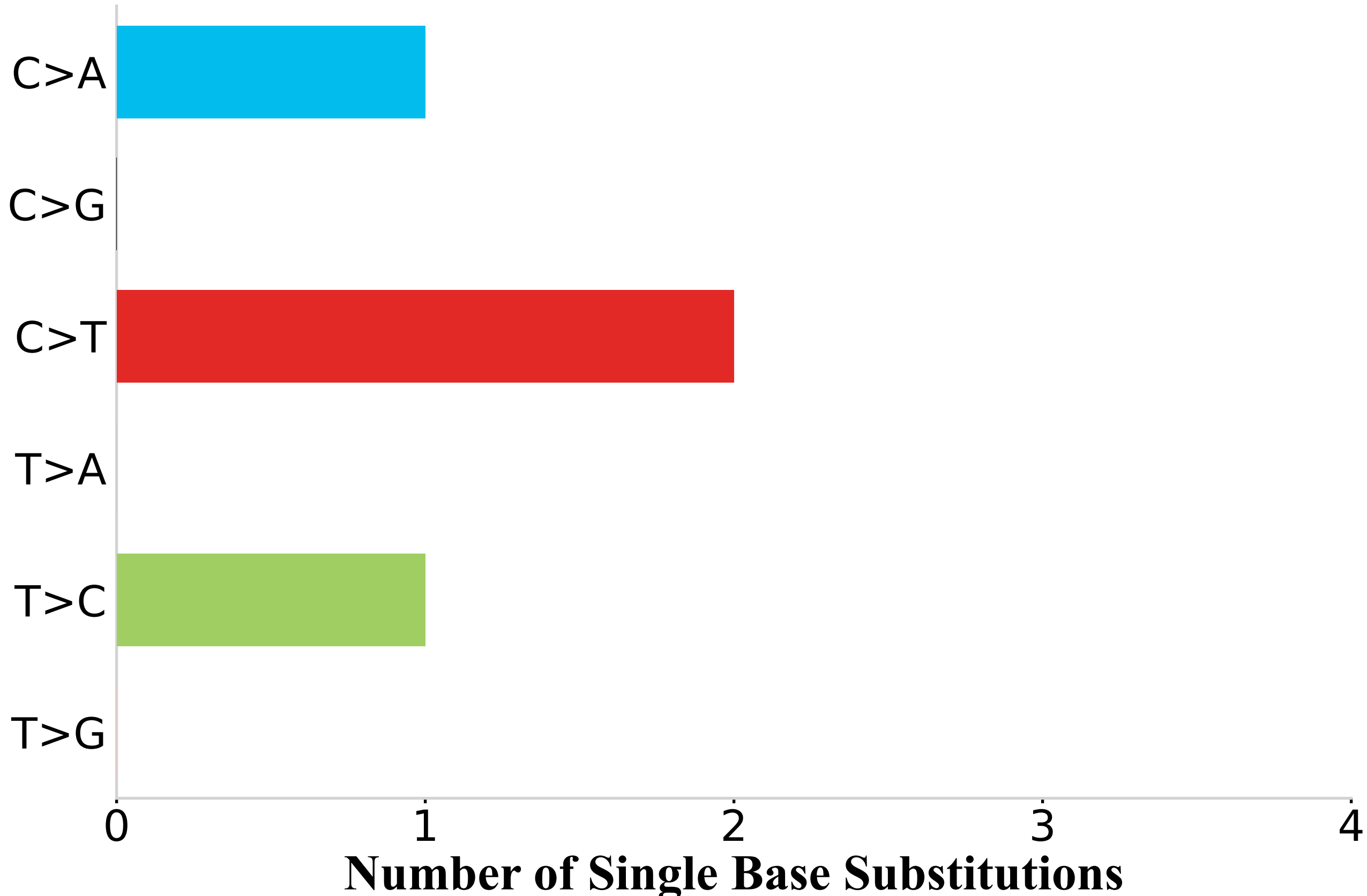
P-0038245-T01-IM6: 7 subs



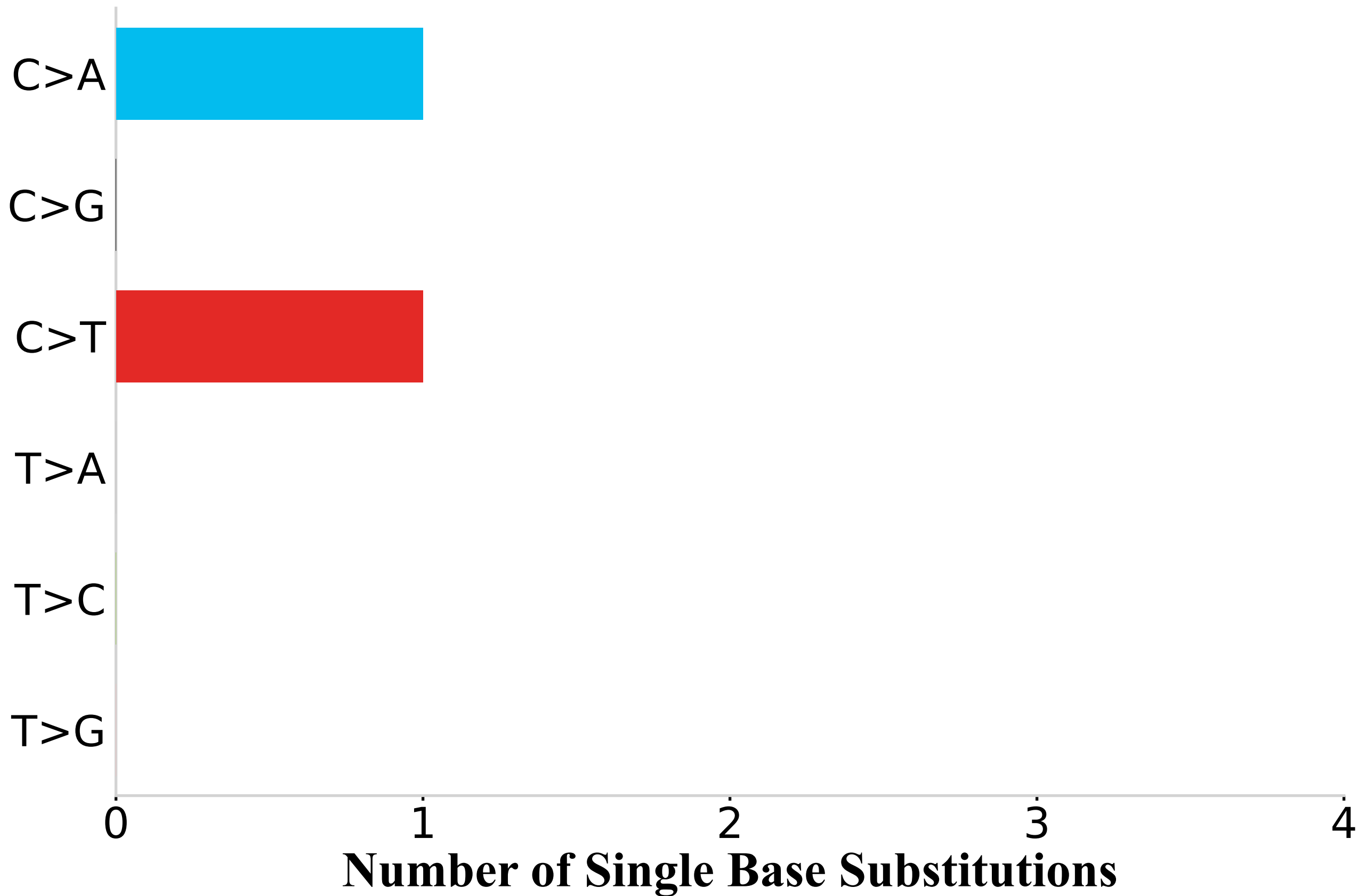
P-0038294-T01-IM6: 4 subs



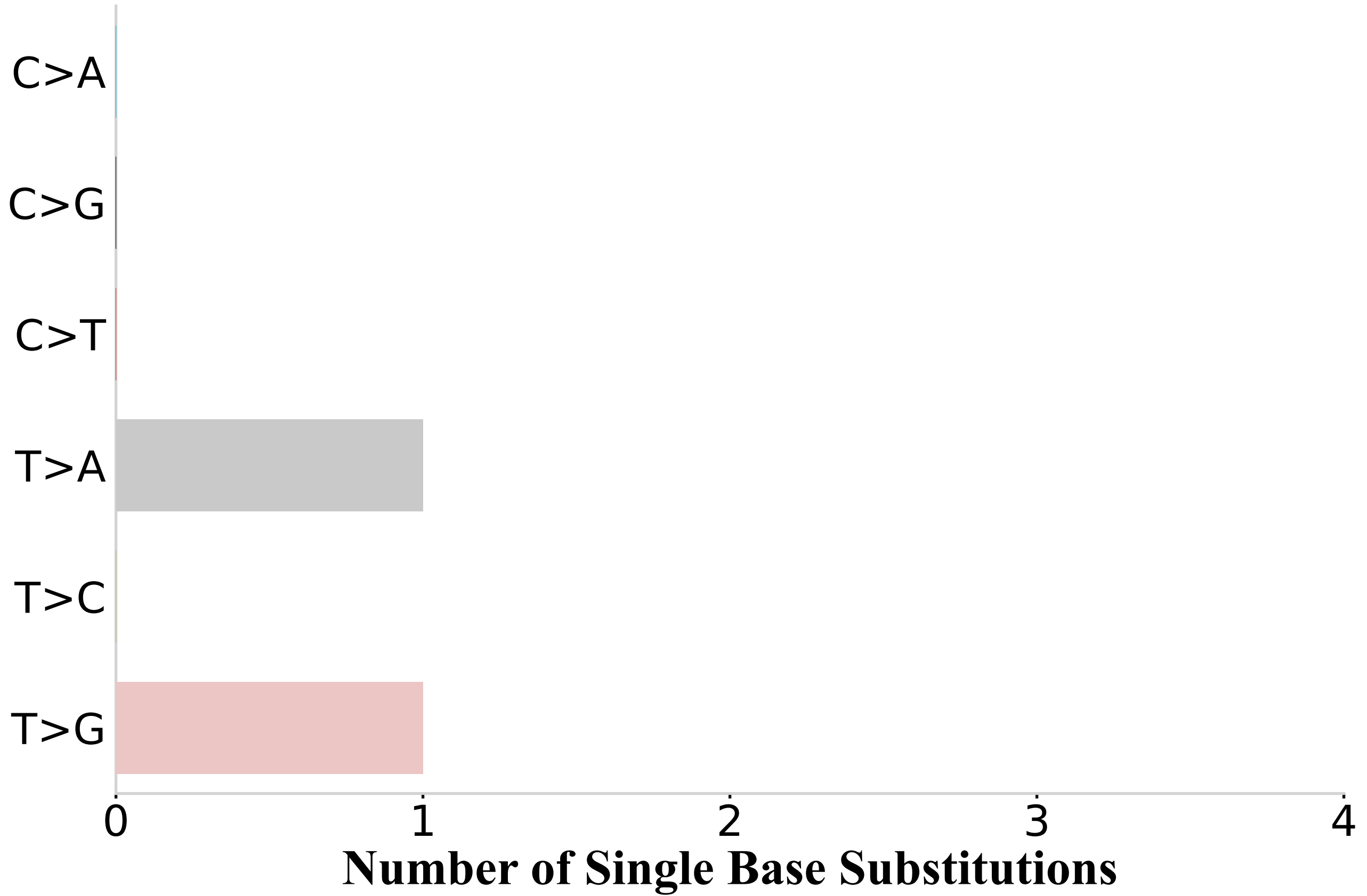
P-0038297-T01-IM6: 4 subs



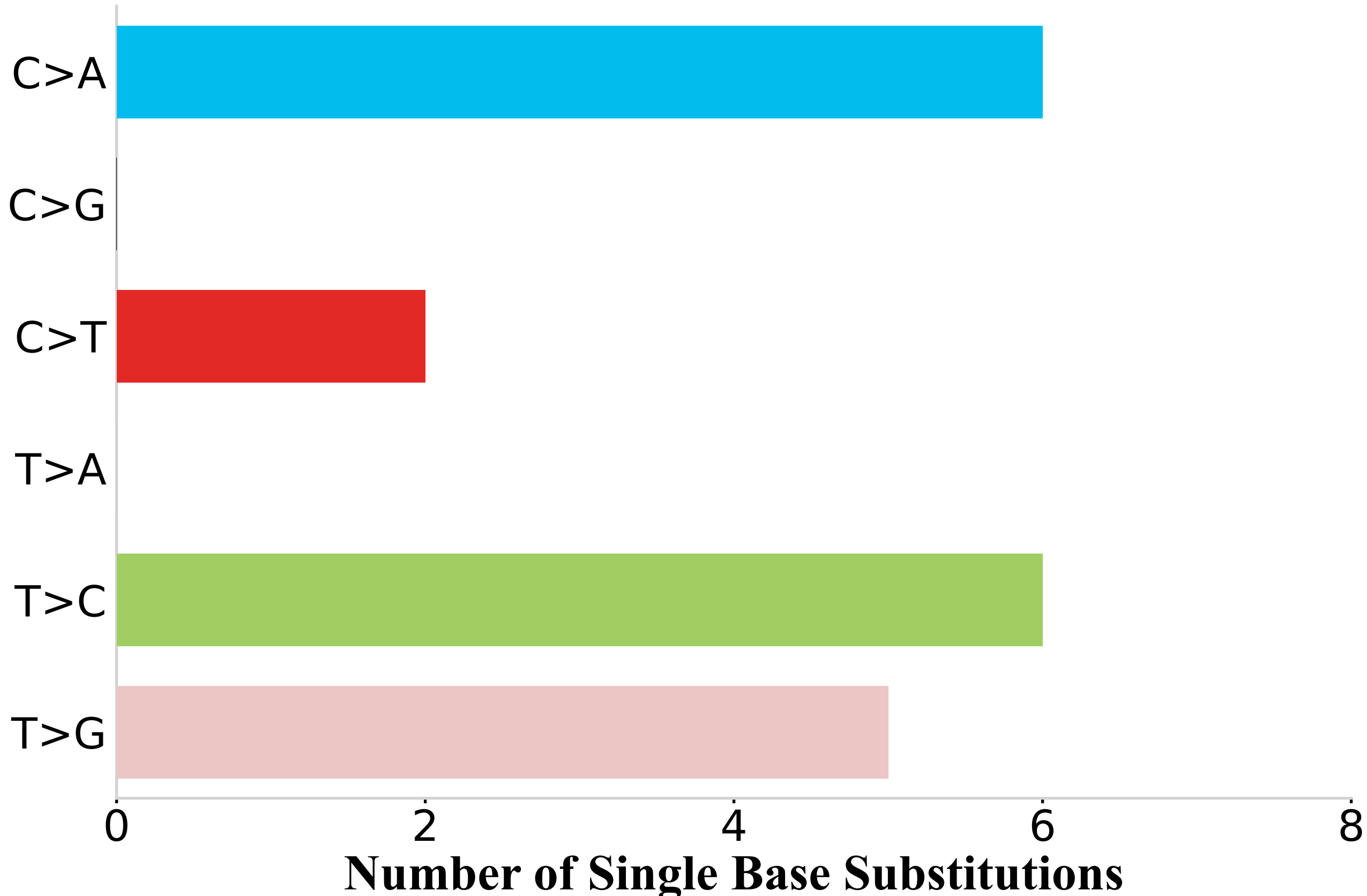
P-0038447-T01-IM6: 2 subs



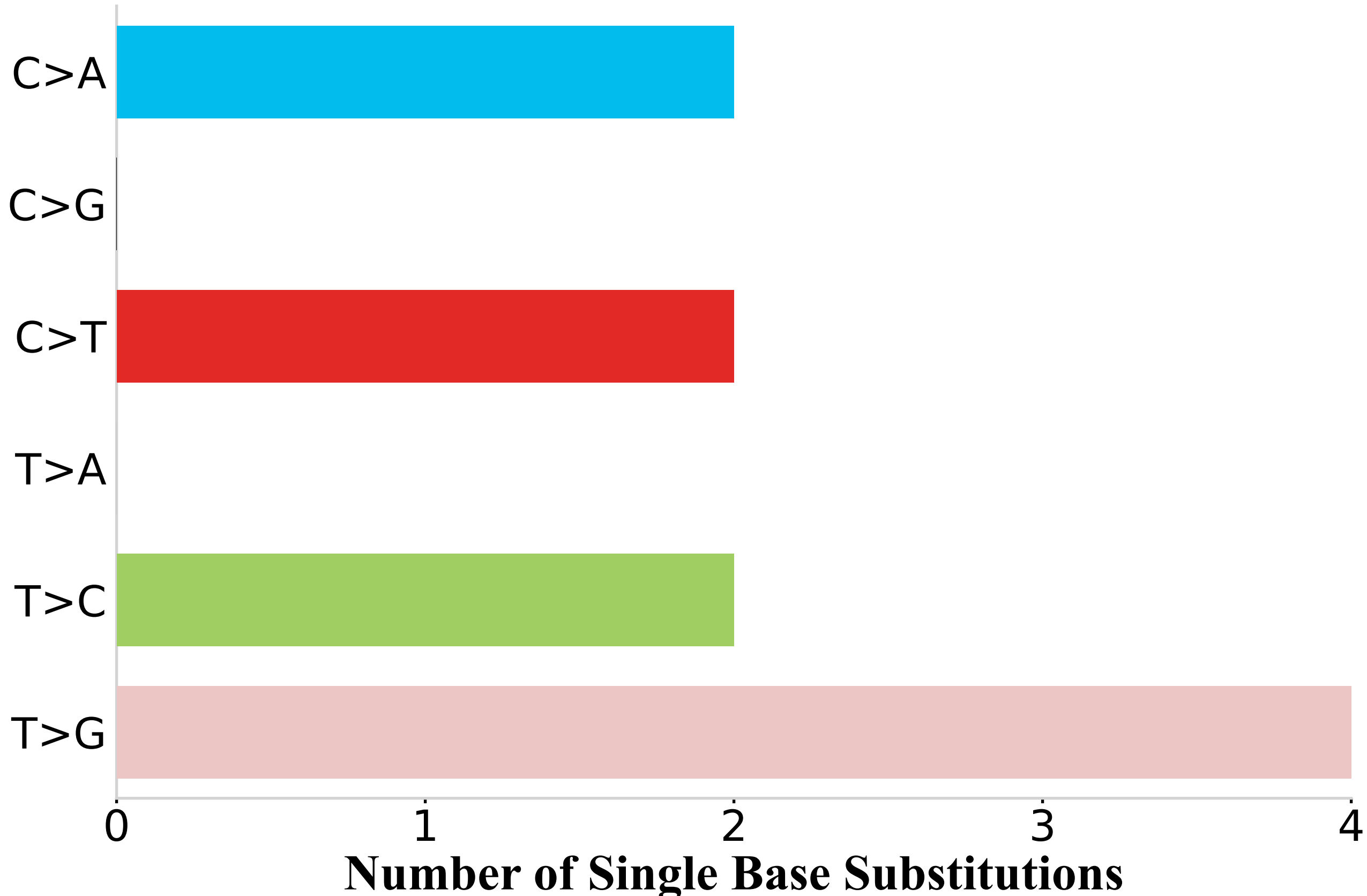
P-0038558-T01-IM6: 2 subs



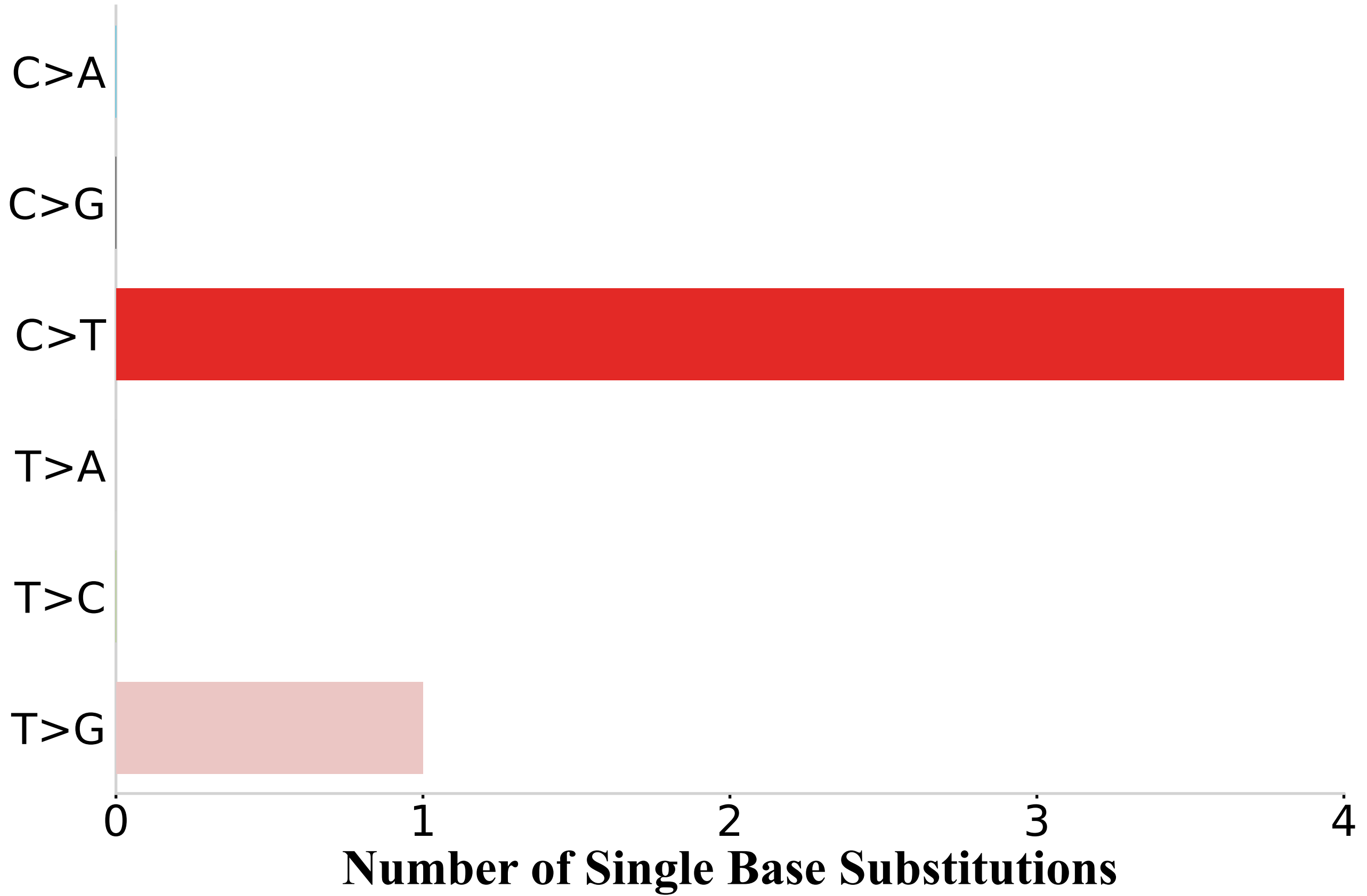
P-0038582-T01-IM6: 19 subs



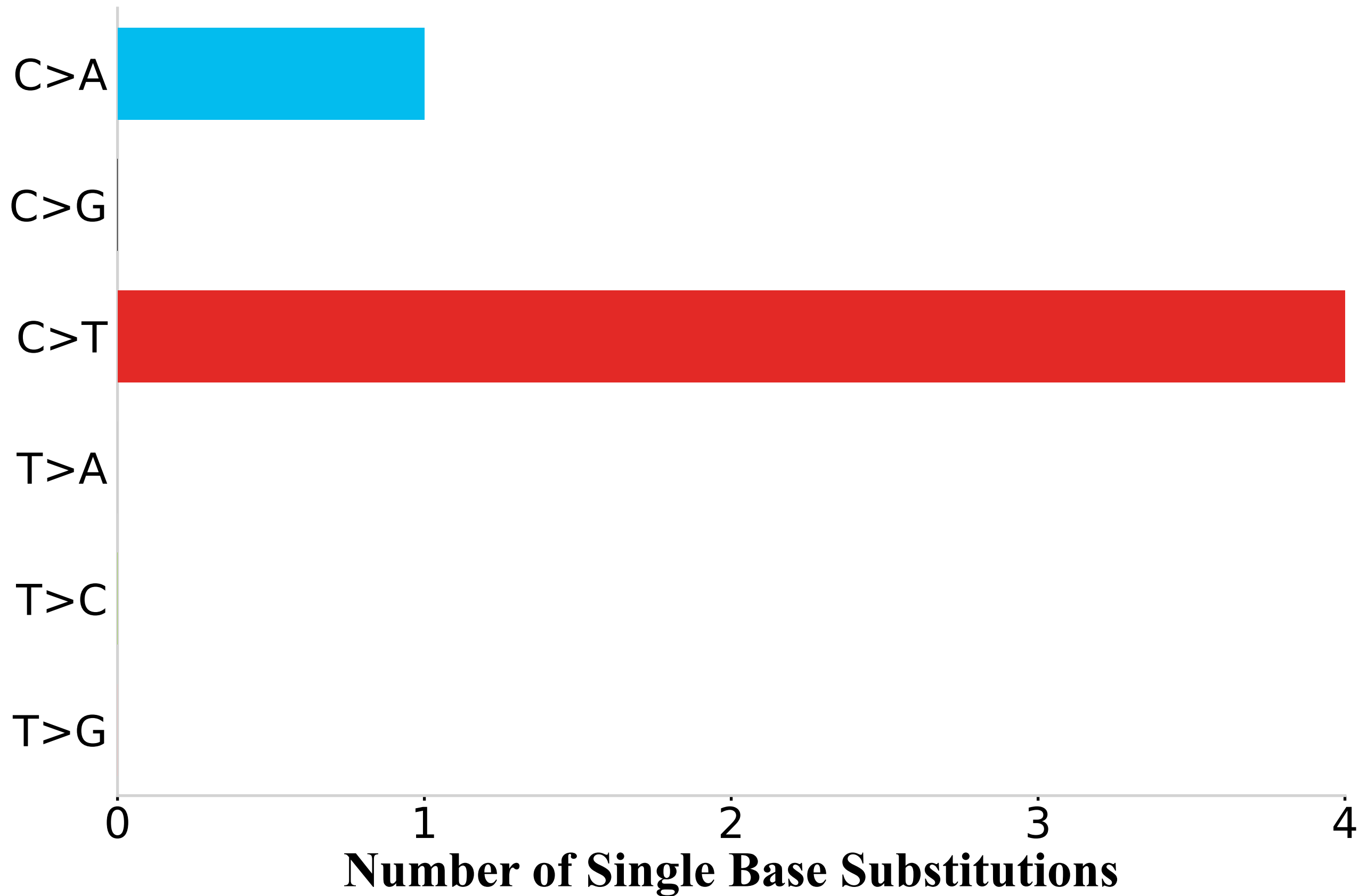
P-0038631-T01-IM6: 10 subs



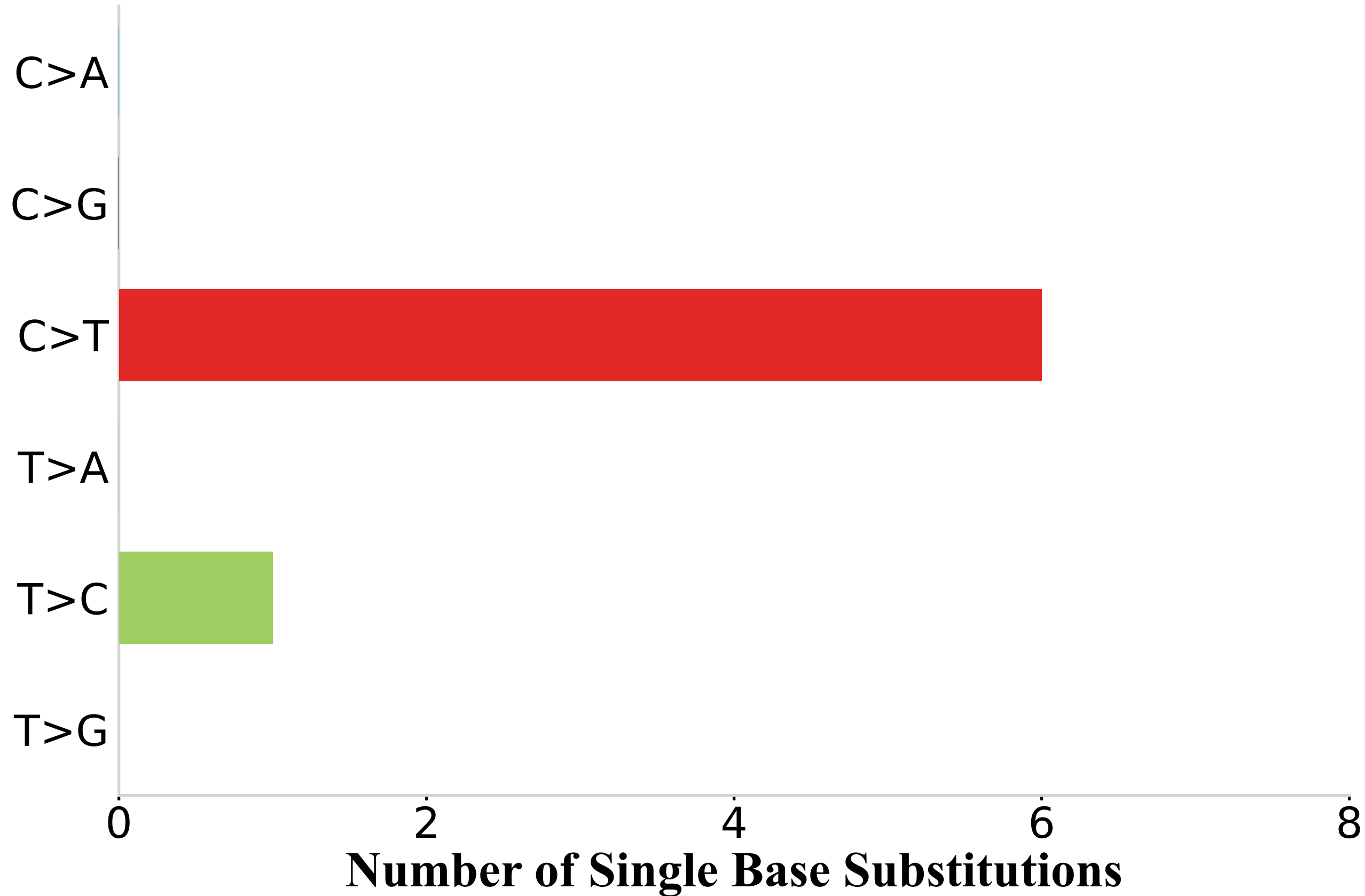
P-0038633-T01-IM6: 5 subs



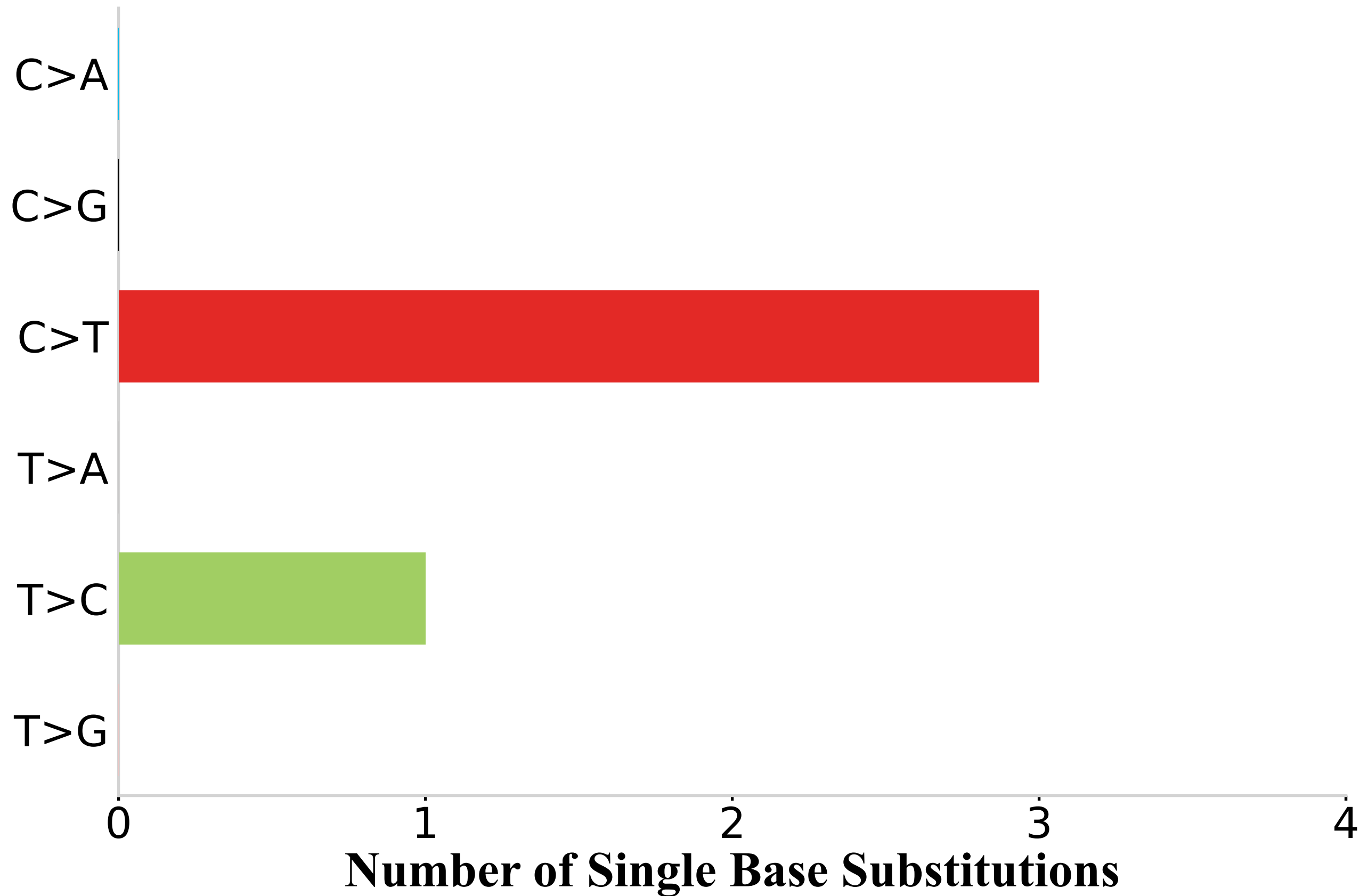
P-0038635-T01-IM6: 5 subs



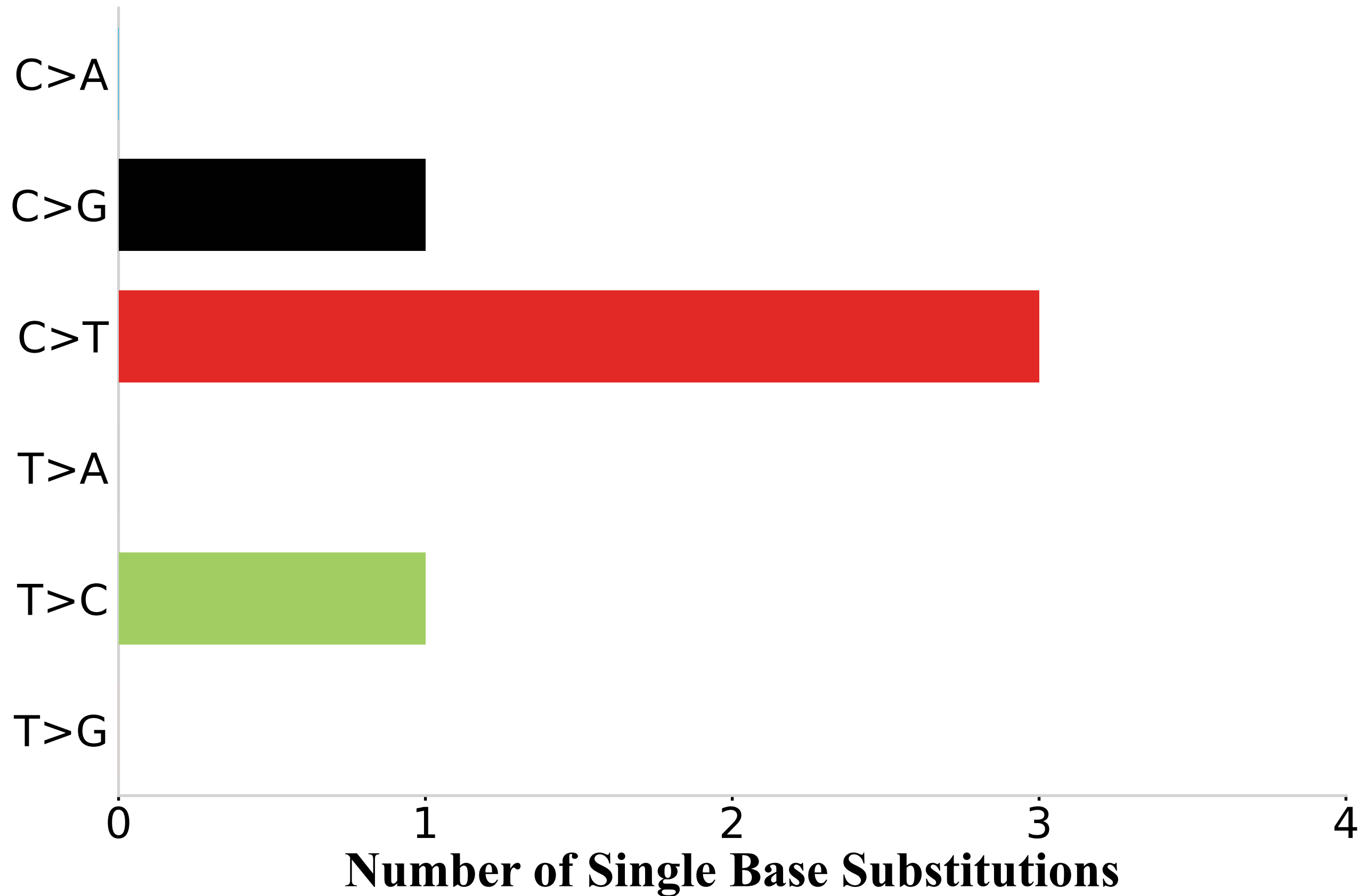
P-0038641-T01-IM6: 7 subs



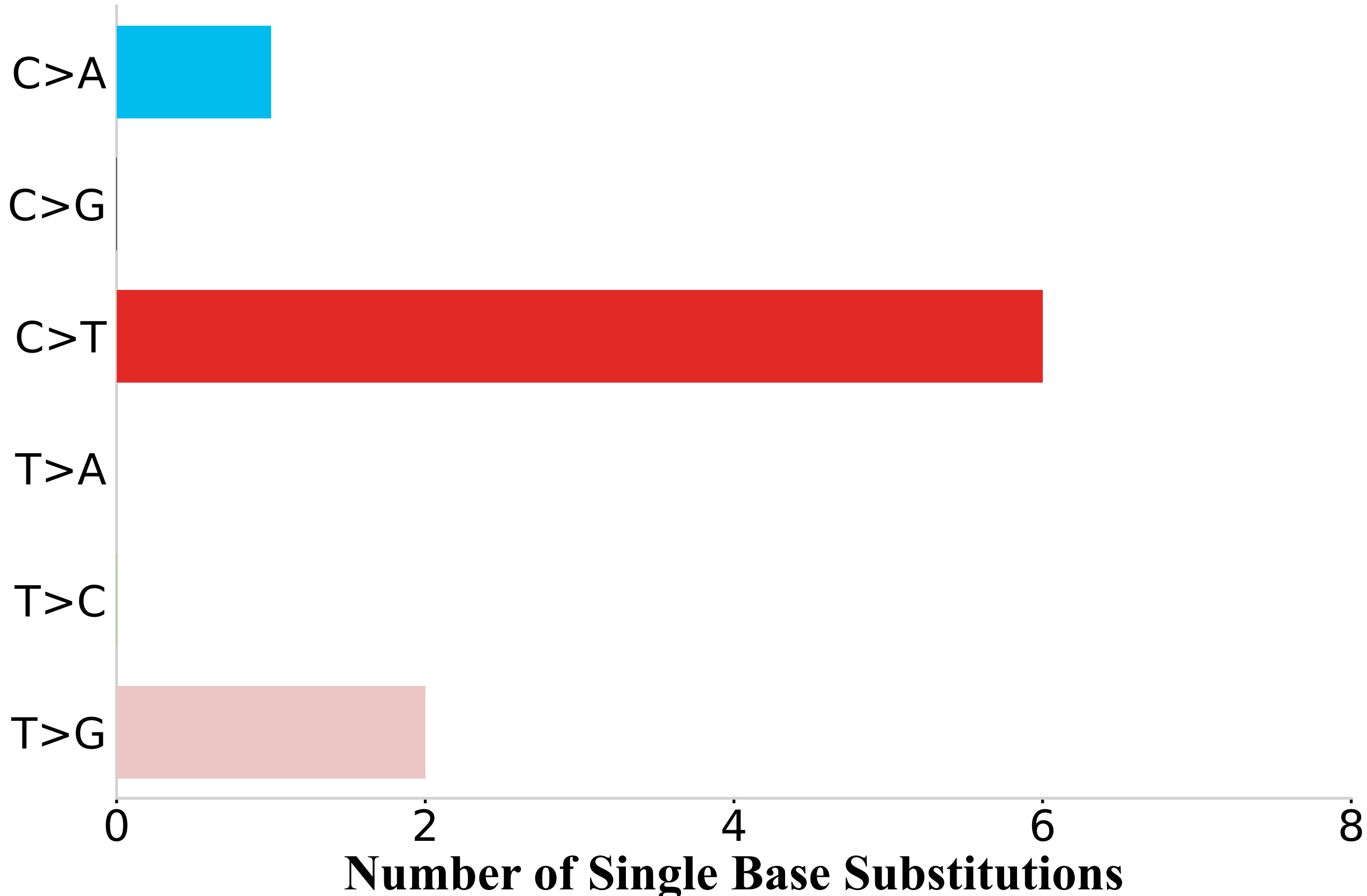
P-0038769-T01-IM6: 4 subs



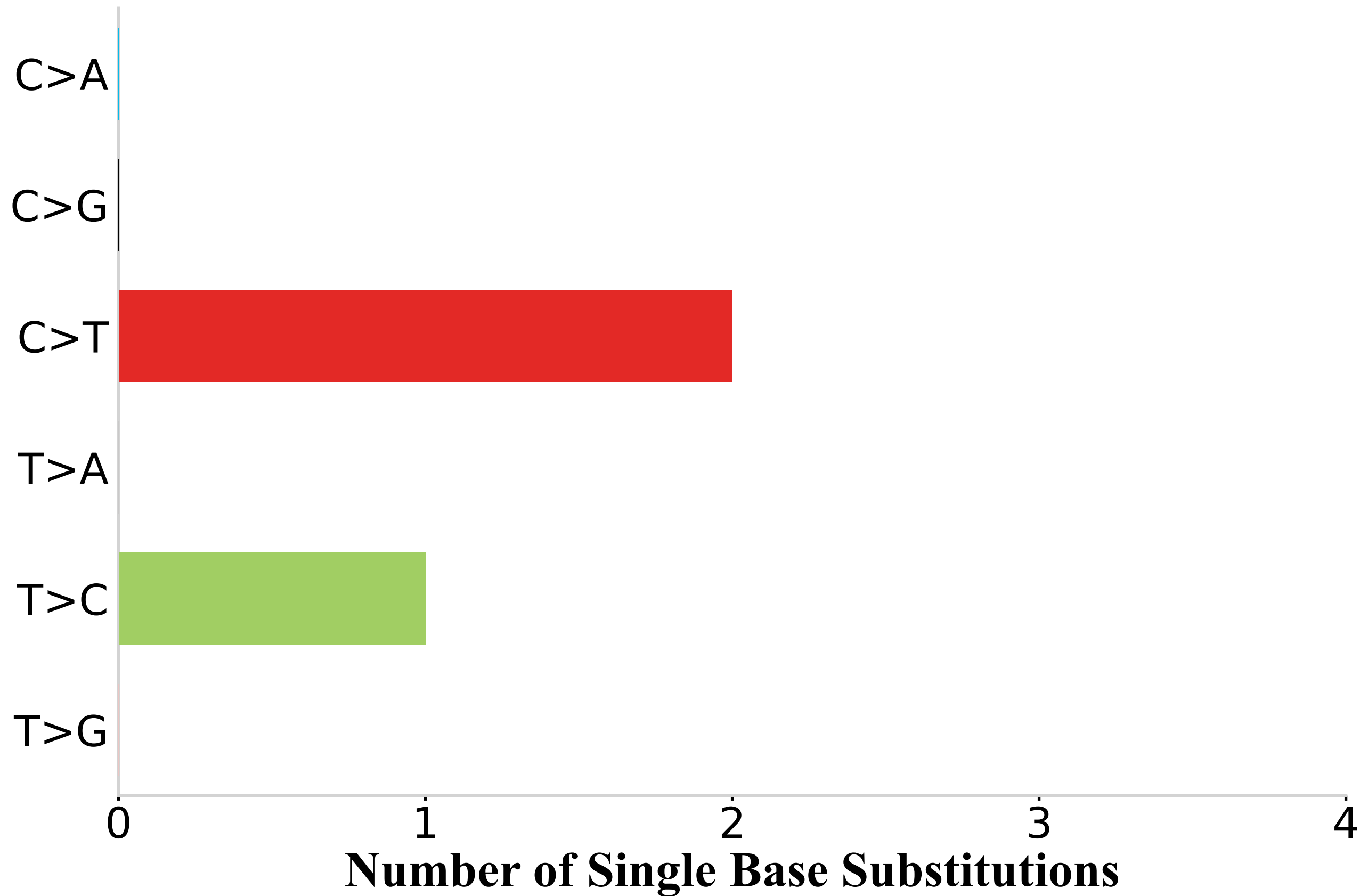
P-0038848-T01-IM6: 5 subs



P-0038857-T01-IM6: 9 subs



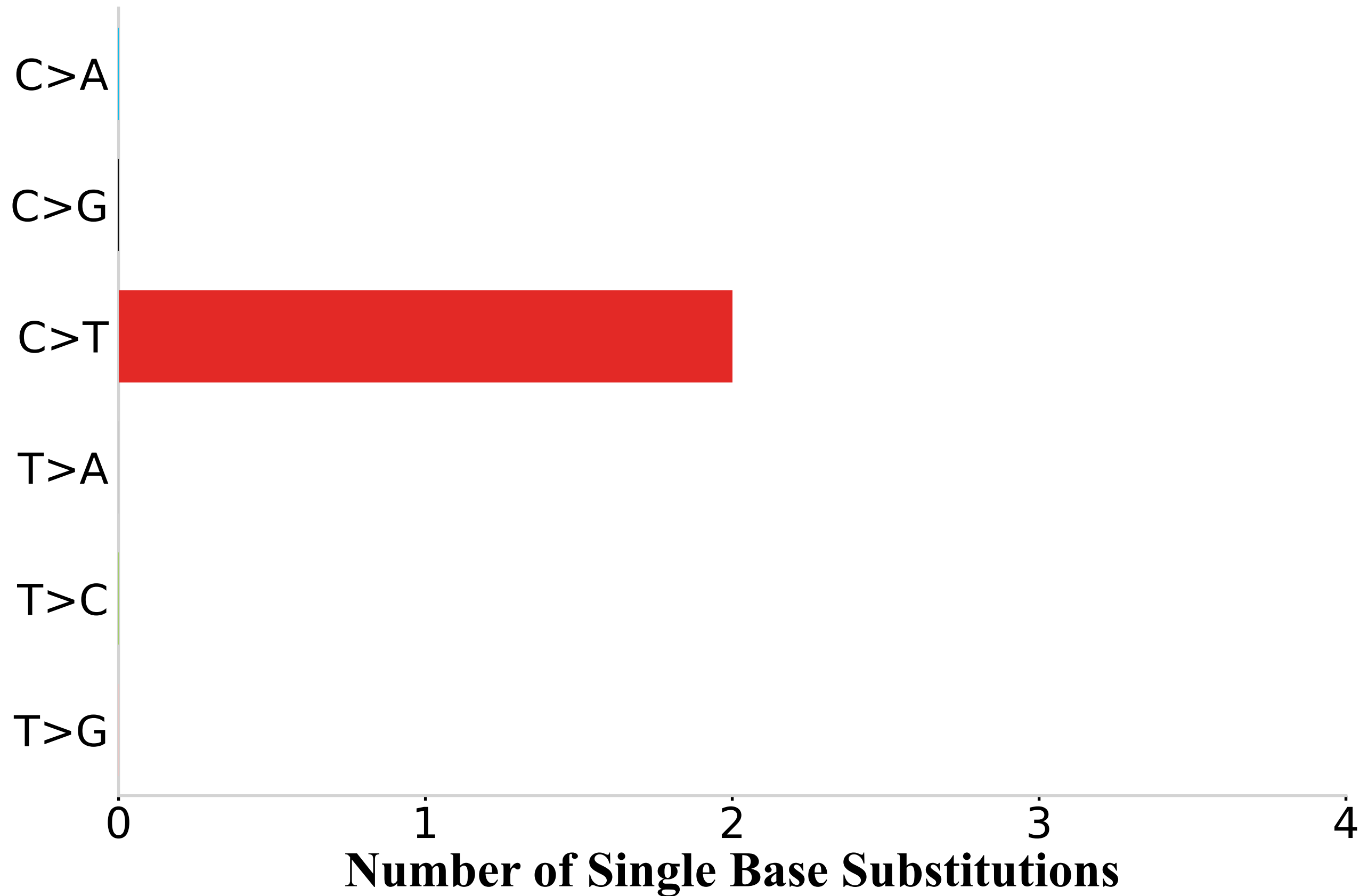
P-0038937-T01-IM6: 3 subs



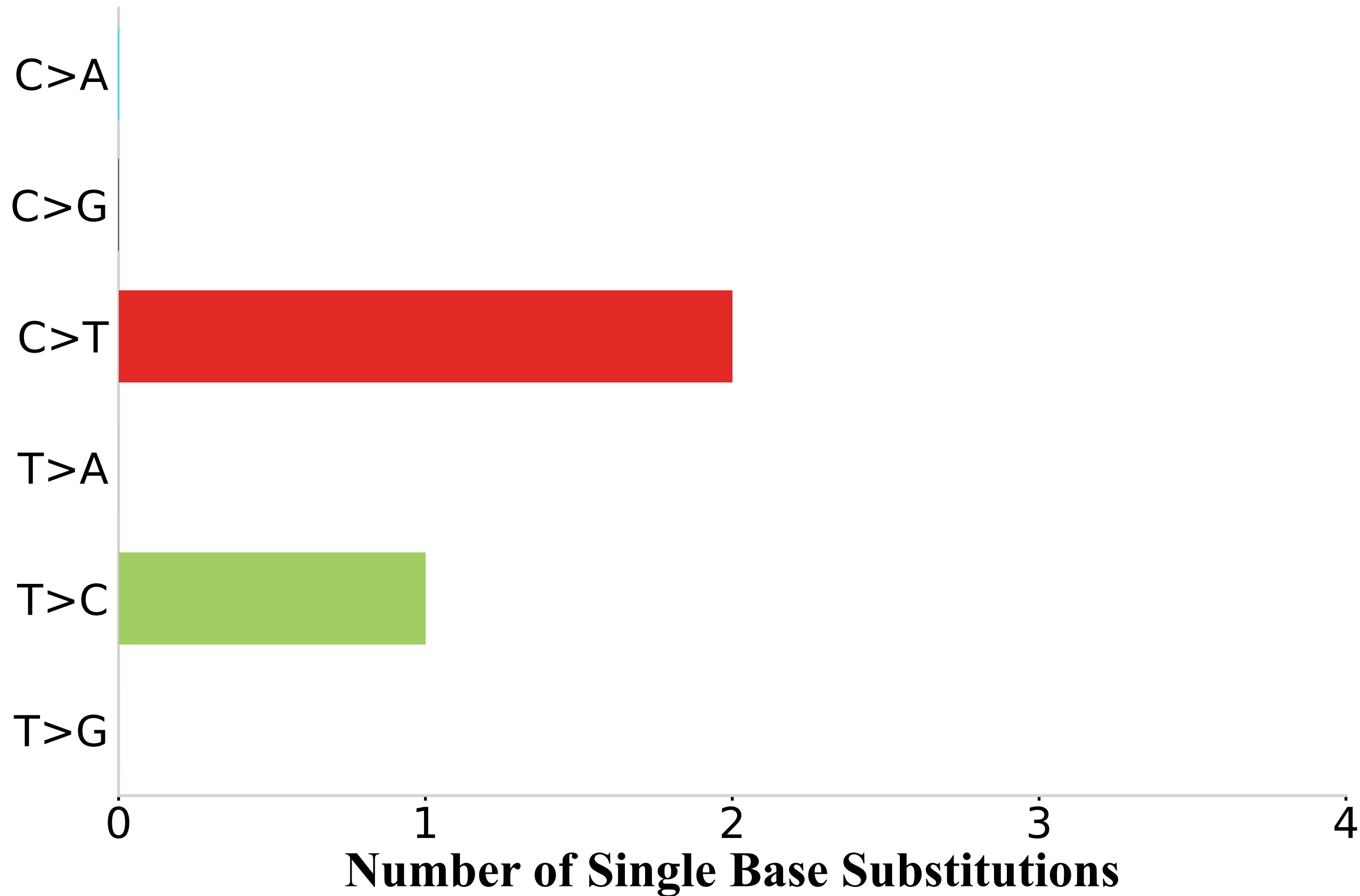
P-0039149-T01-IM6: 8 subs



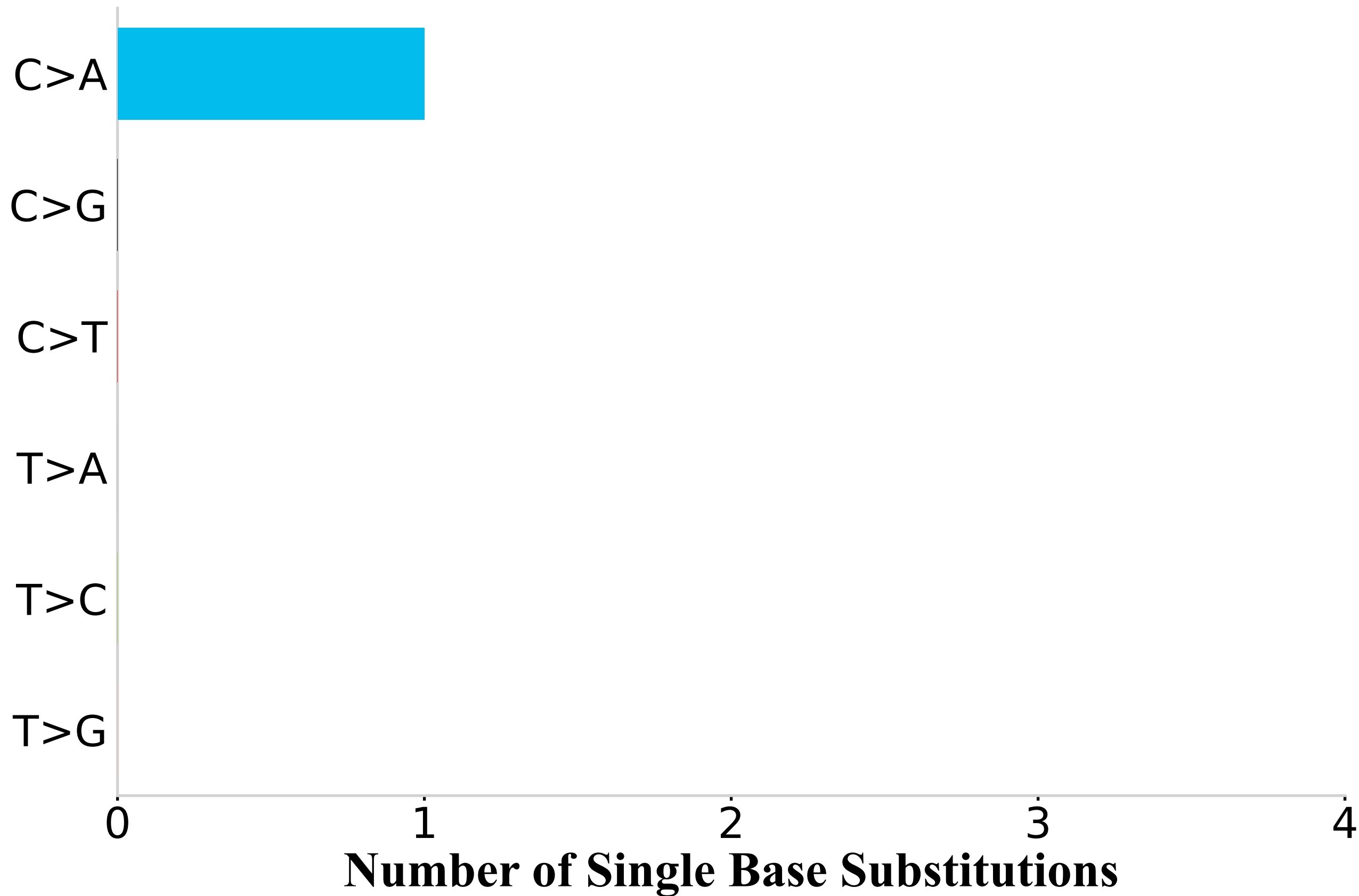
P-0039159-T01-IM6: 2 subs



P-0039321-T01-IM6: 3 subs



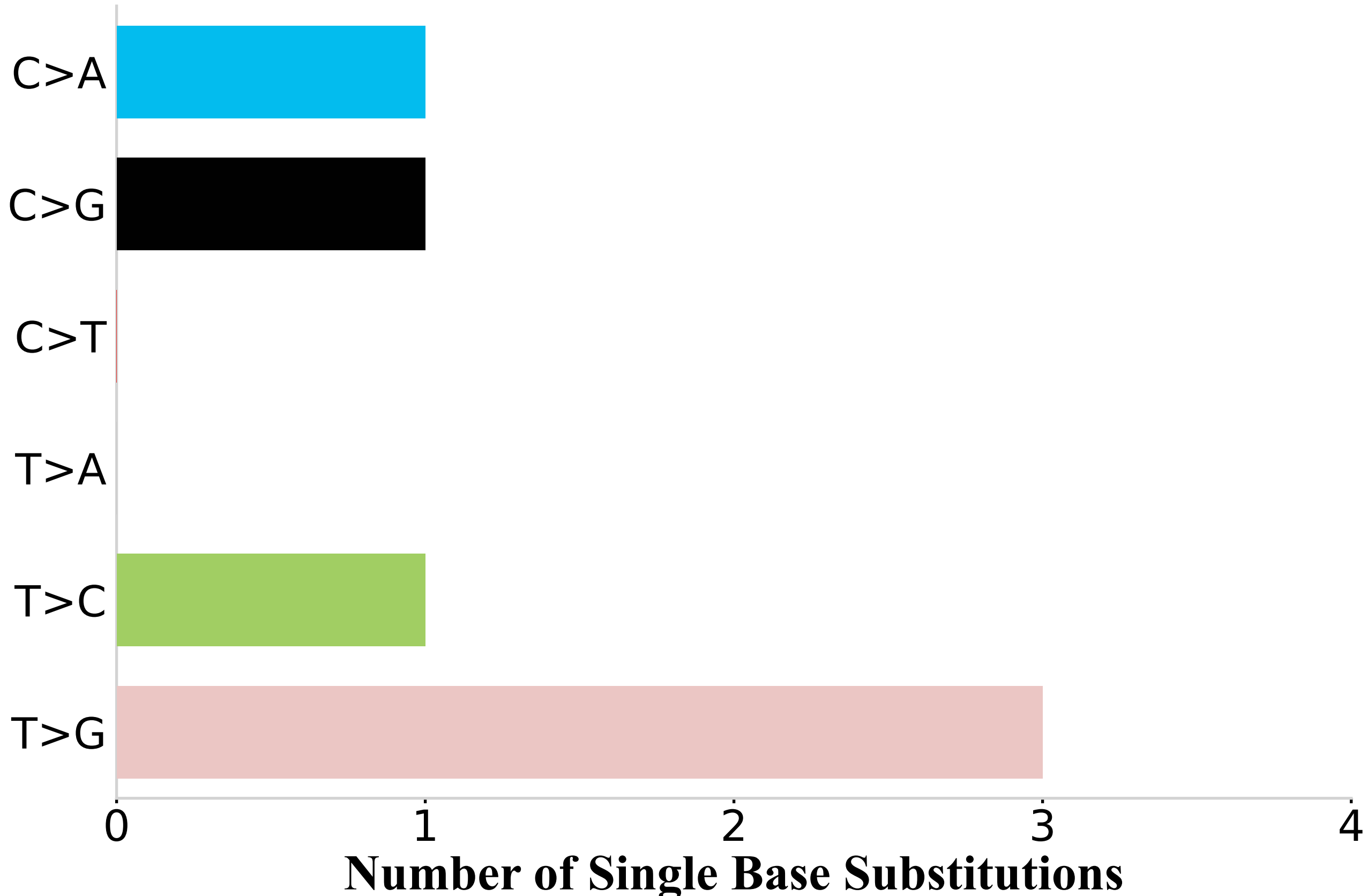
P-0039886-T01-IM6: 1 subs



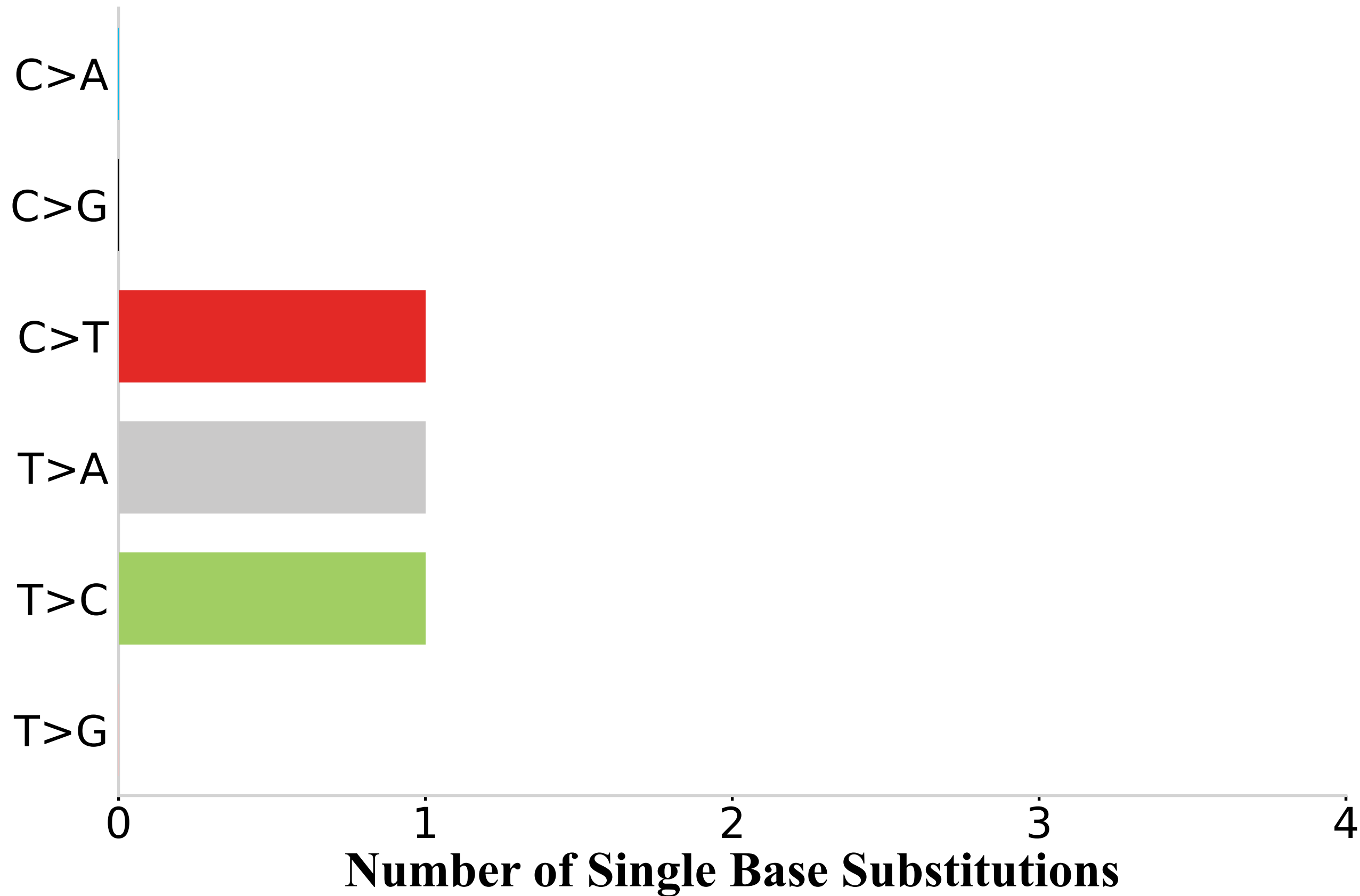
P-0039951-T01-IM6: 1 subs



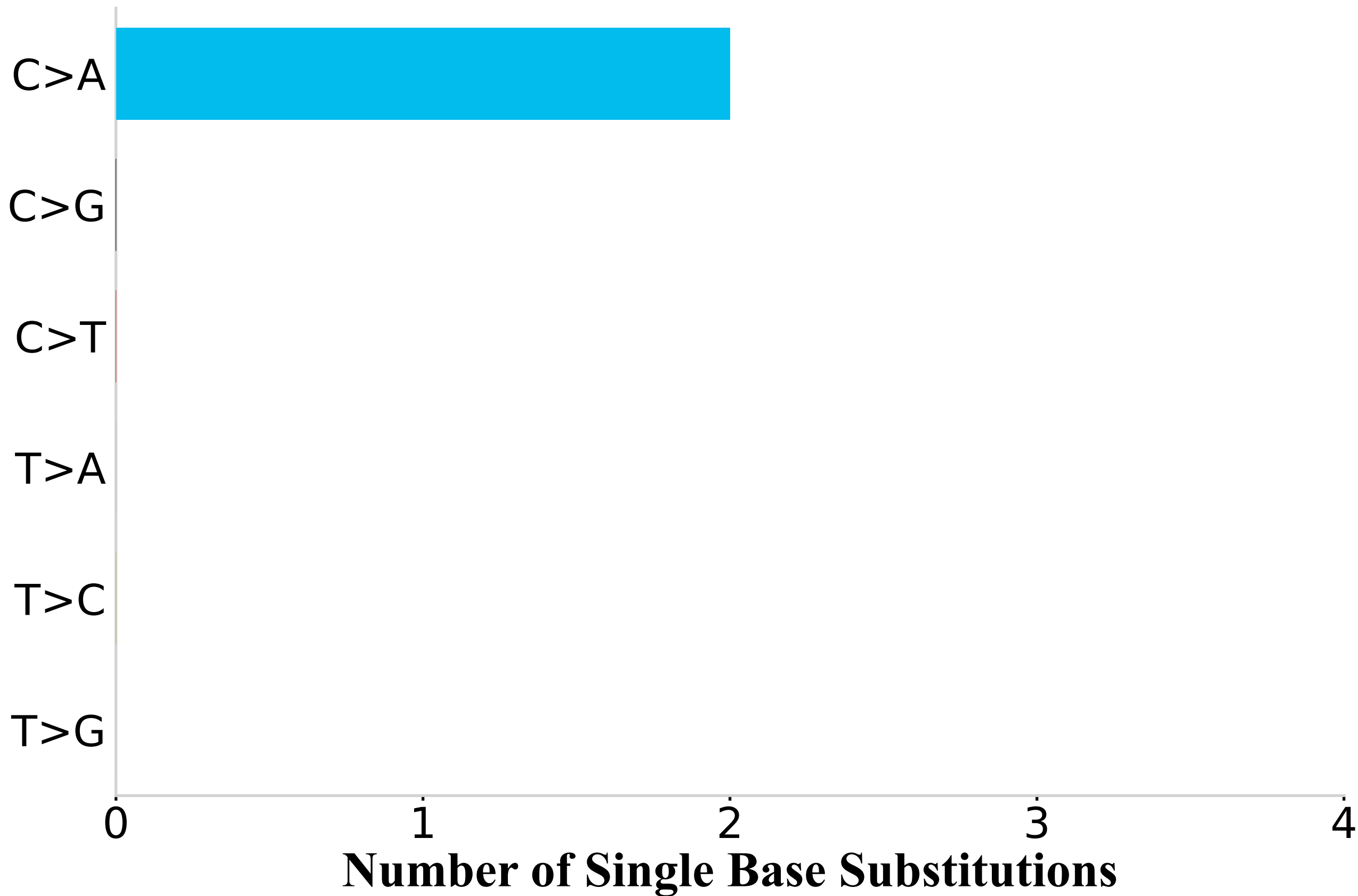
P-0040300-T01-IM6: 6 subs



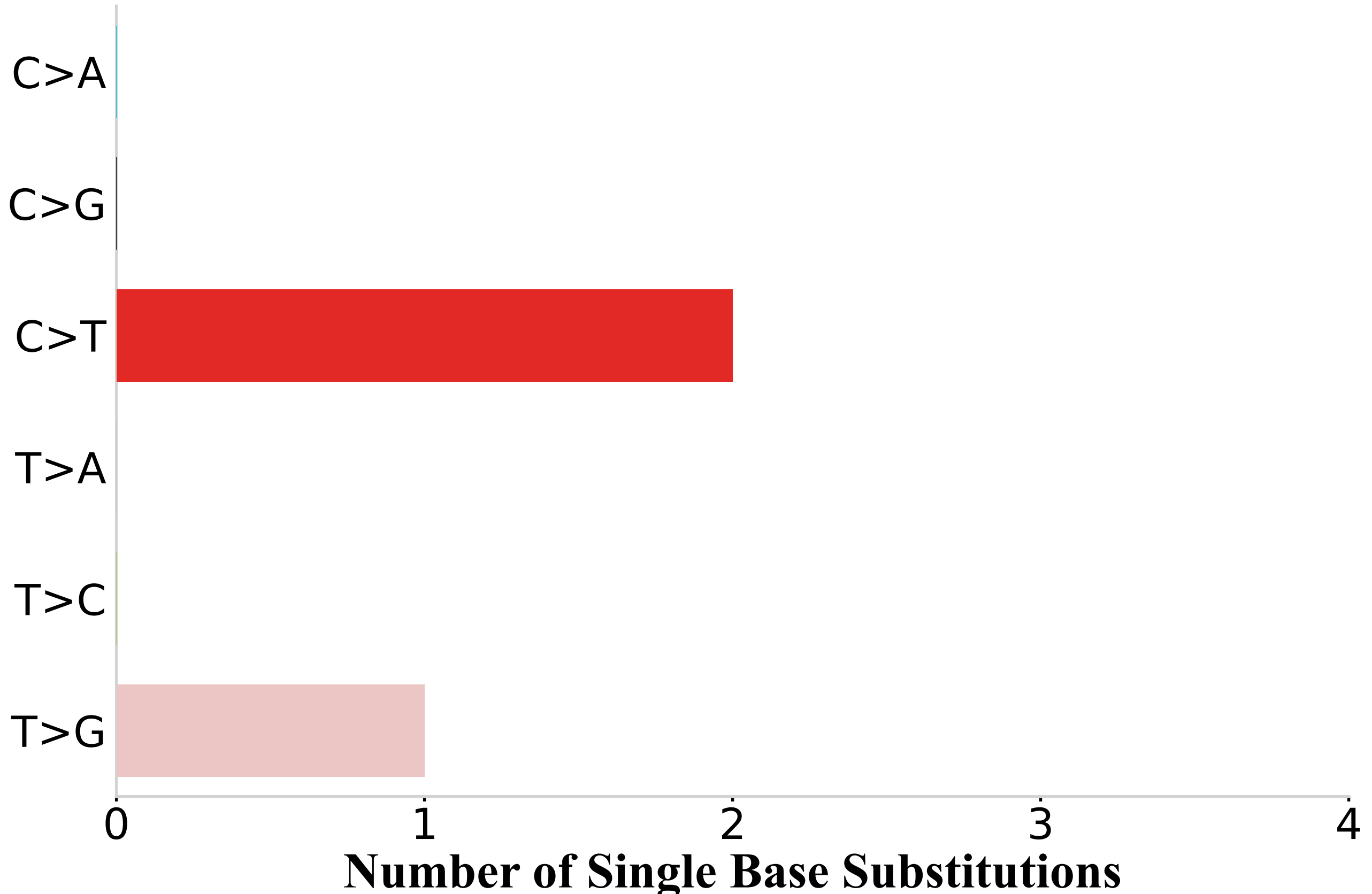
P-0040315-T01-IM6: 3 subs



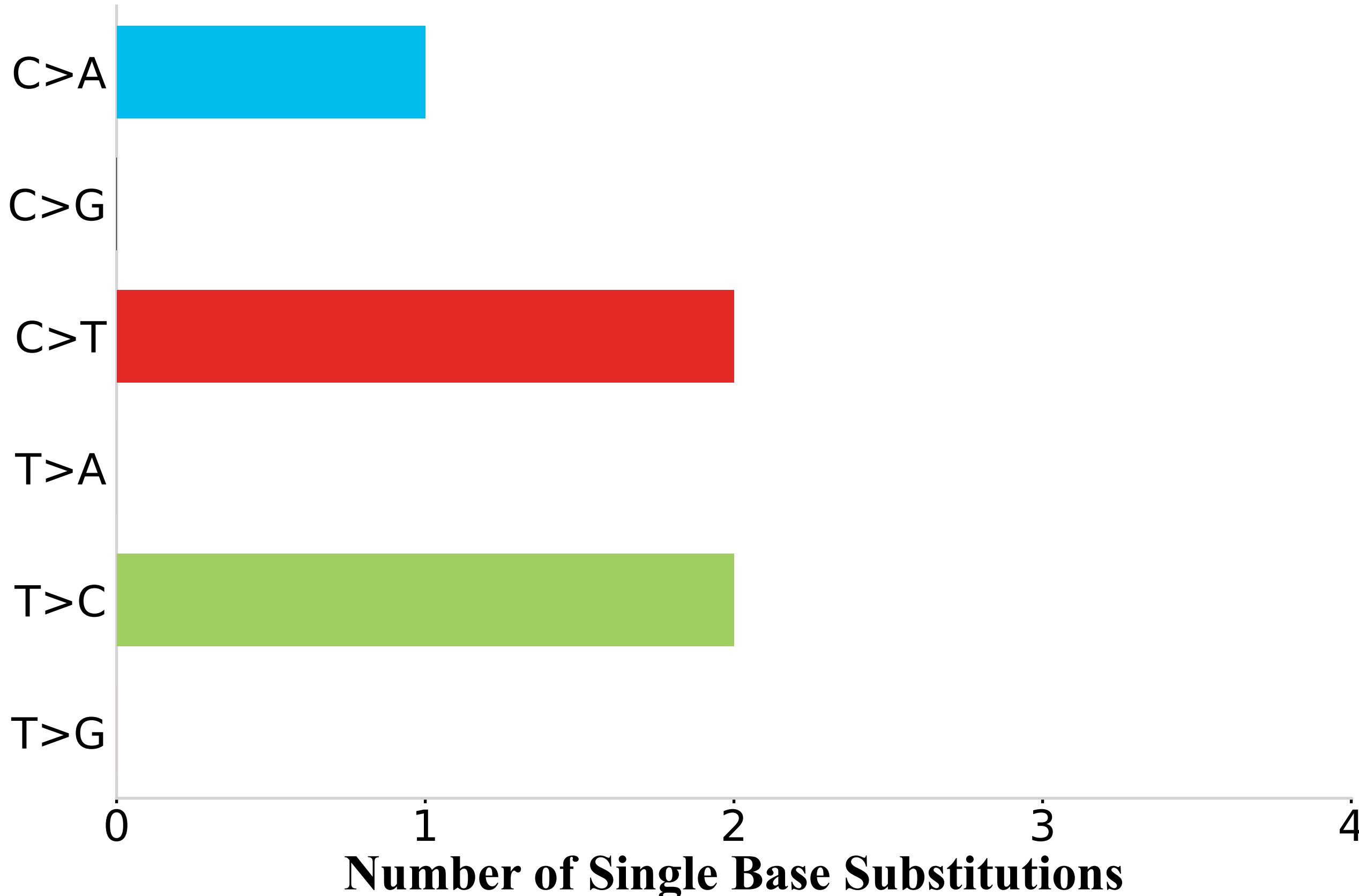
P-0040444-T01-IM6: 2 subs



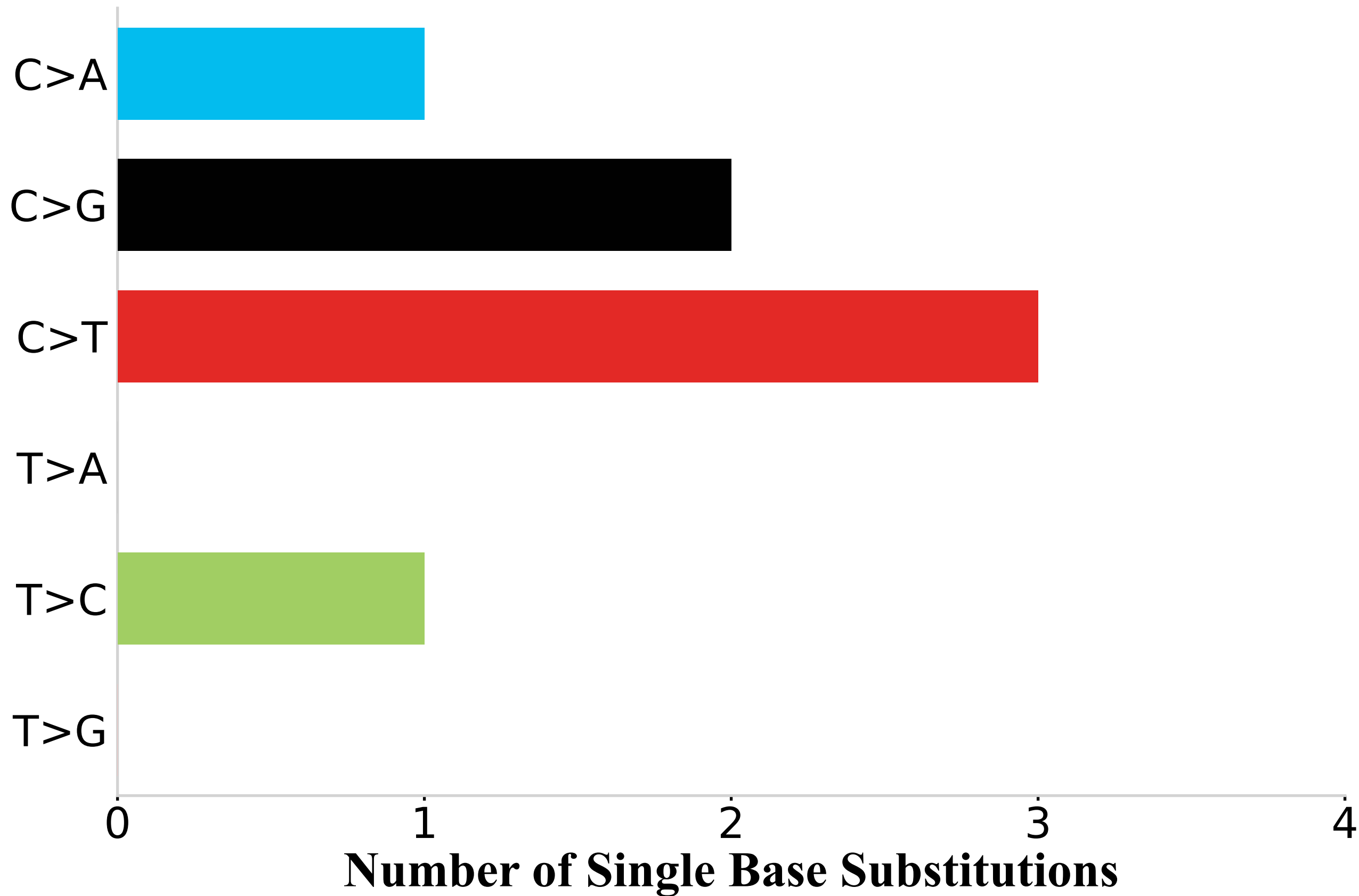
P-0040587-T01-IM6: 3 subs



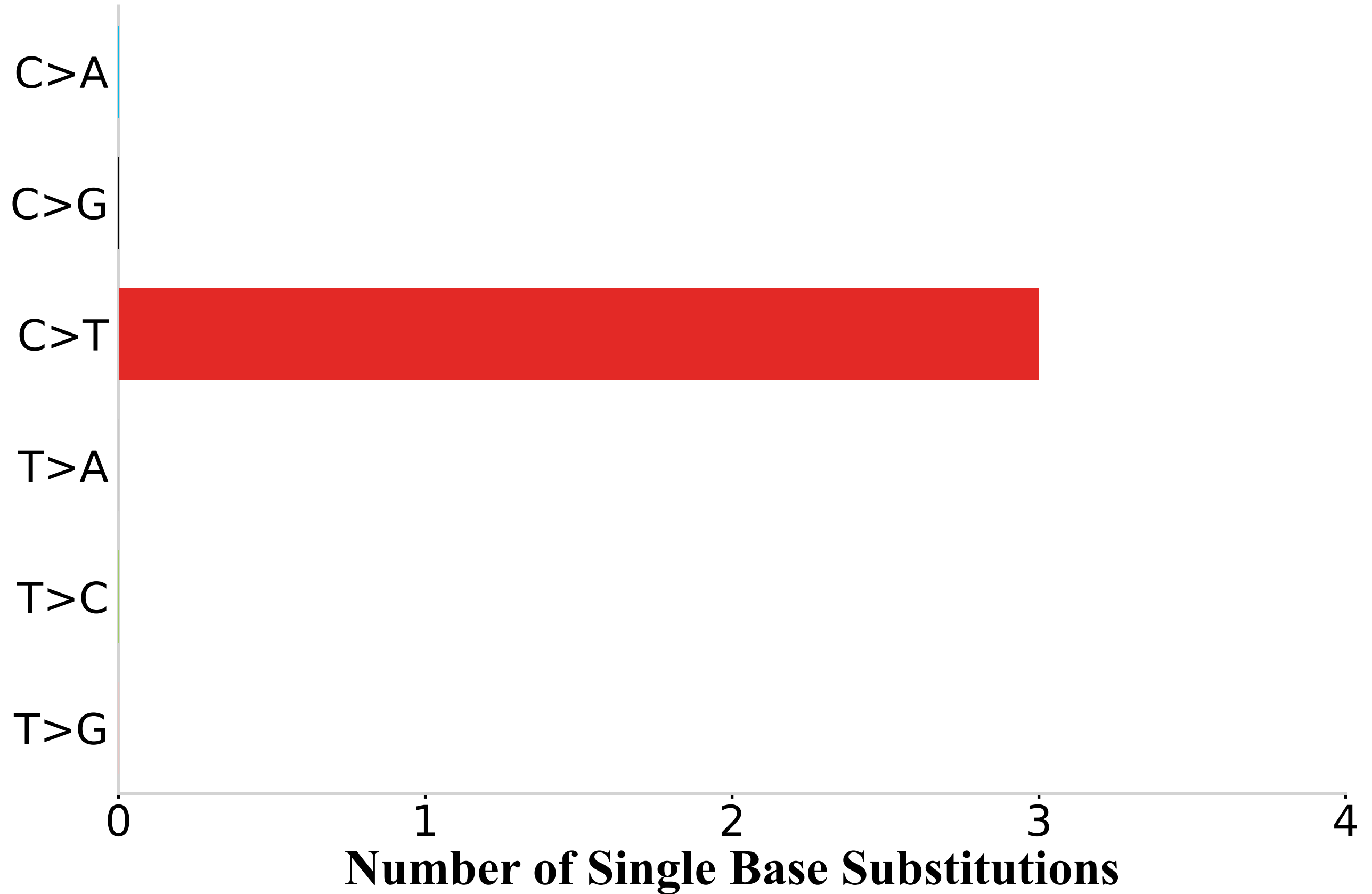
P-0040591-T01-IM6: 5 subs



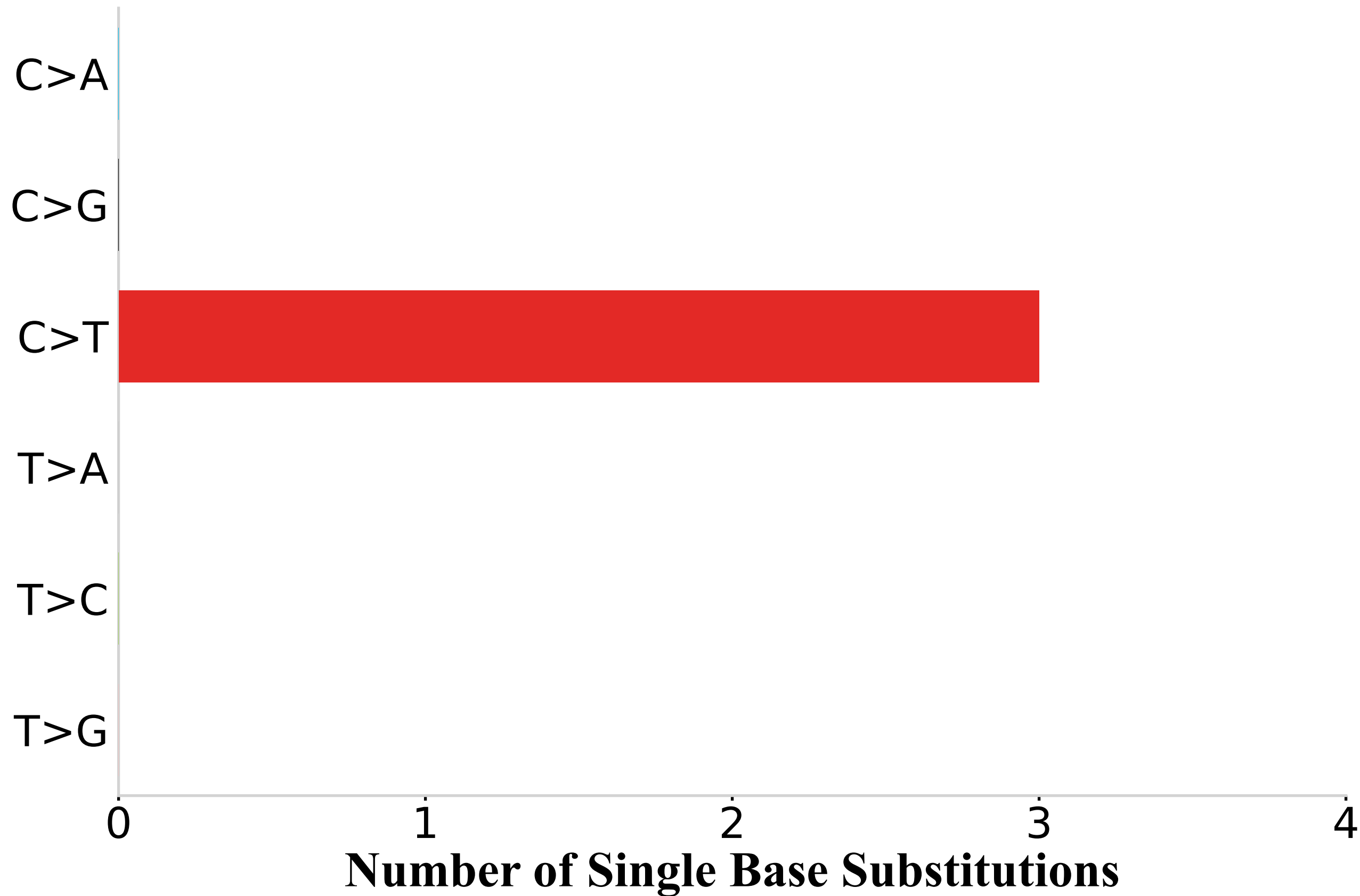
P-0040602-T01-IM6: 7 subs



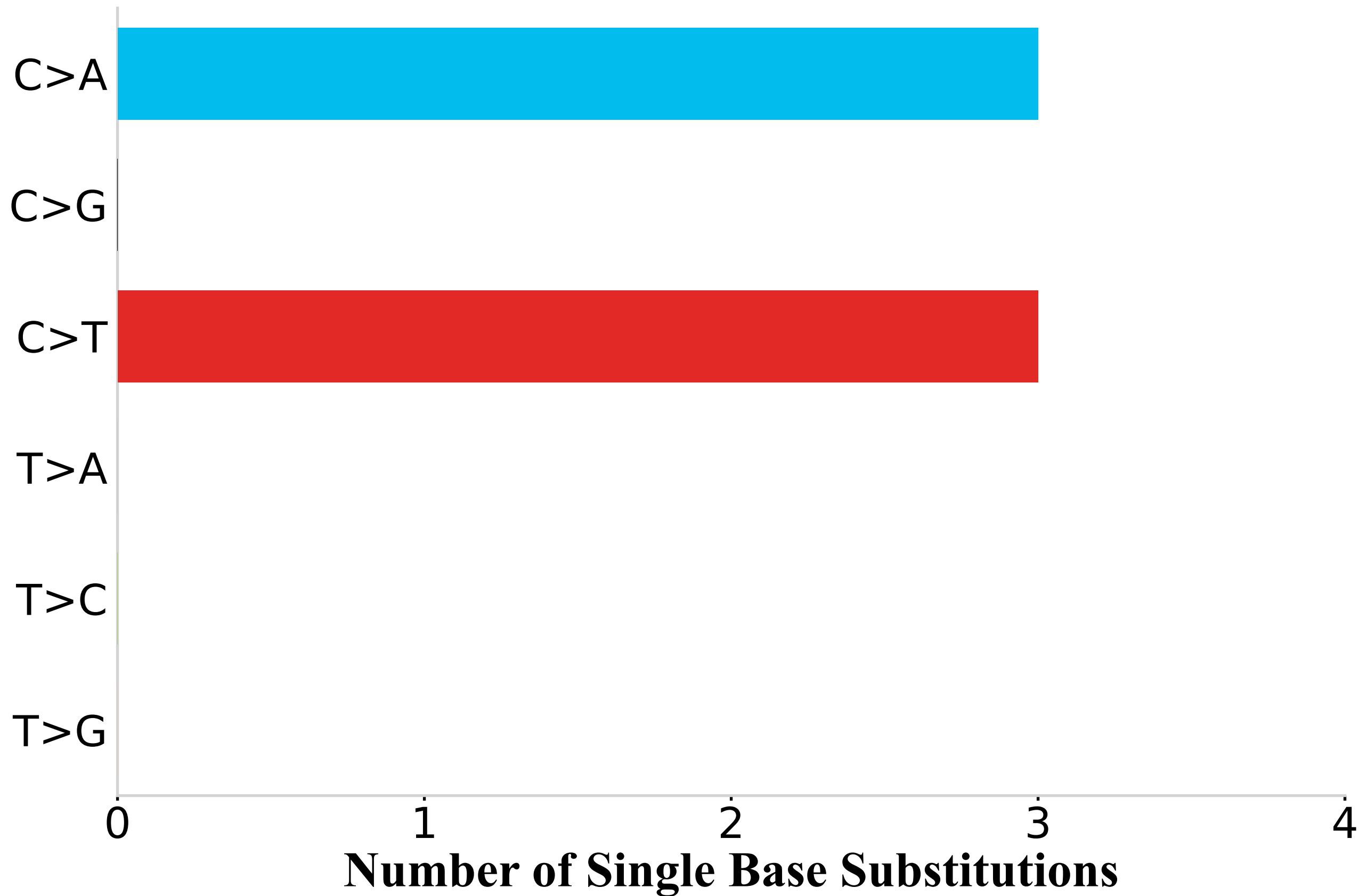
P-0040676-T01-IM6: 3 subs



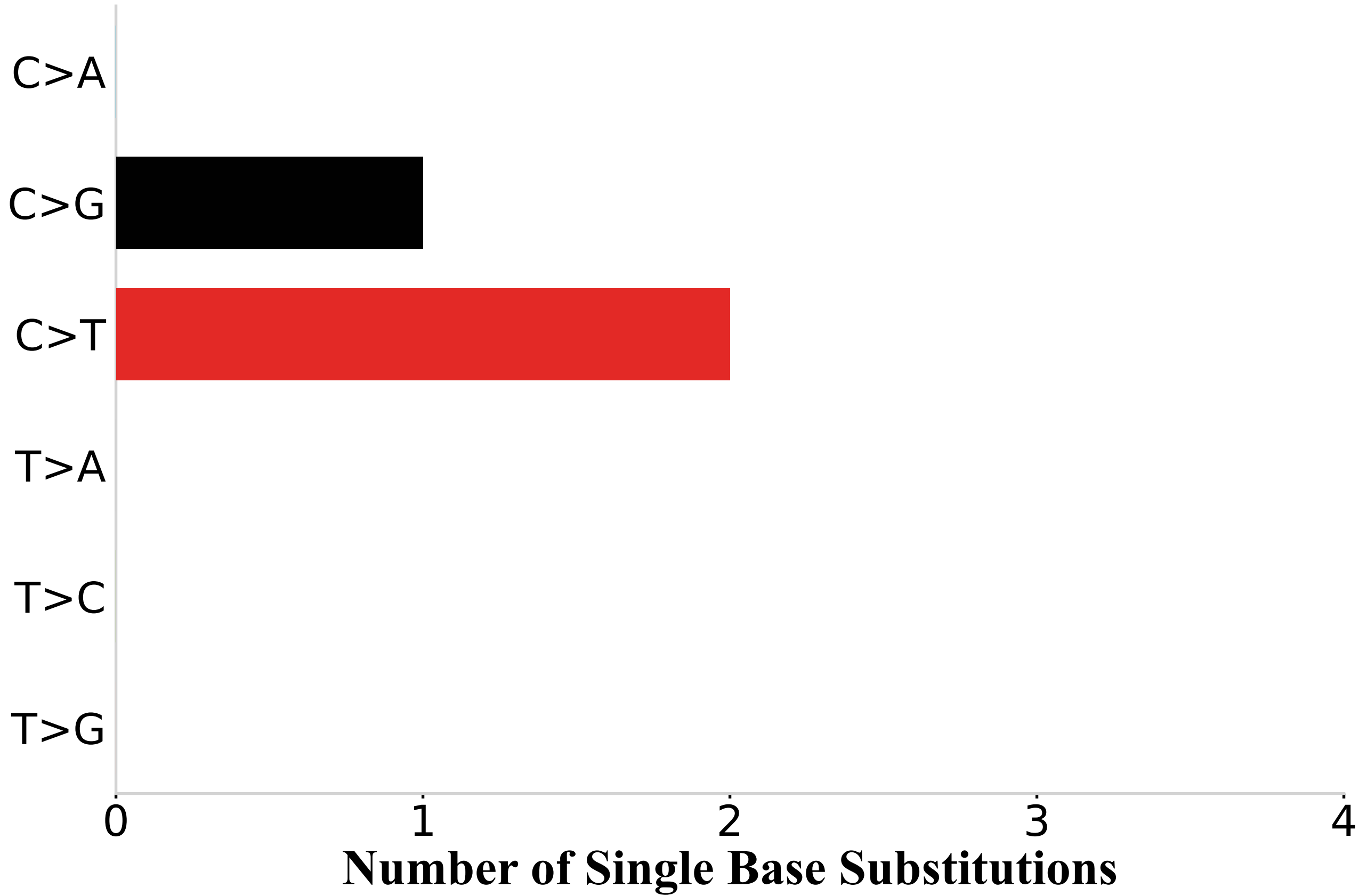
P-0040855-T01-IM6: 3 subs



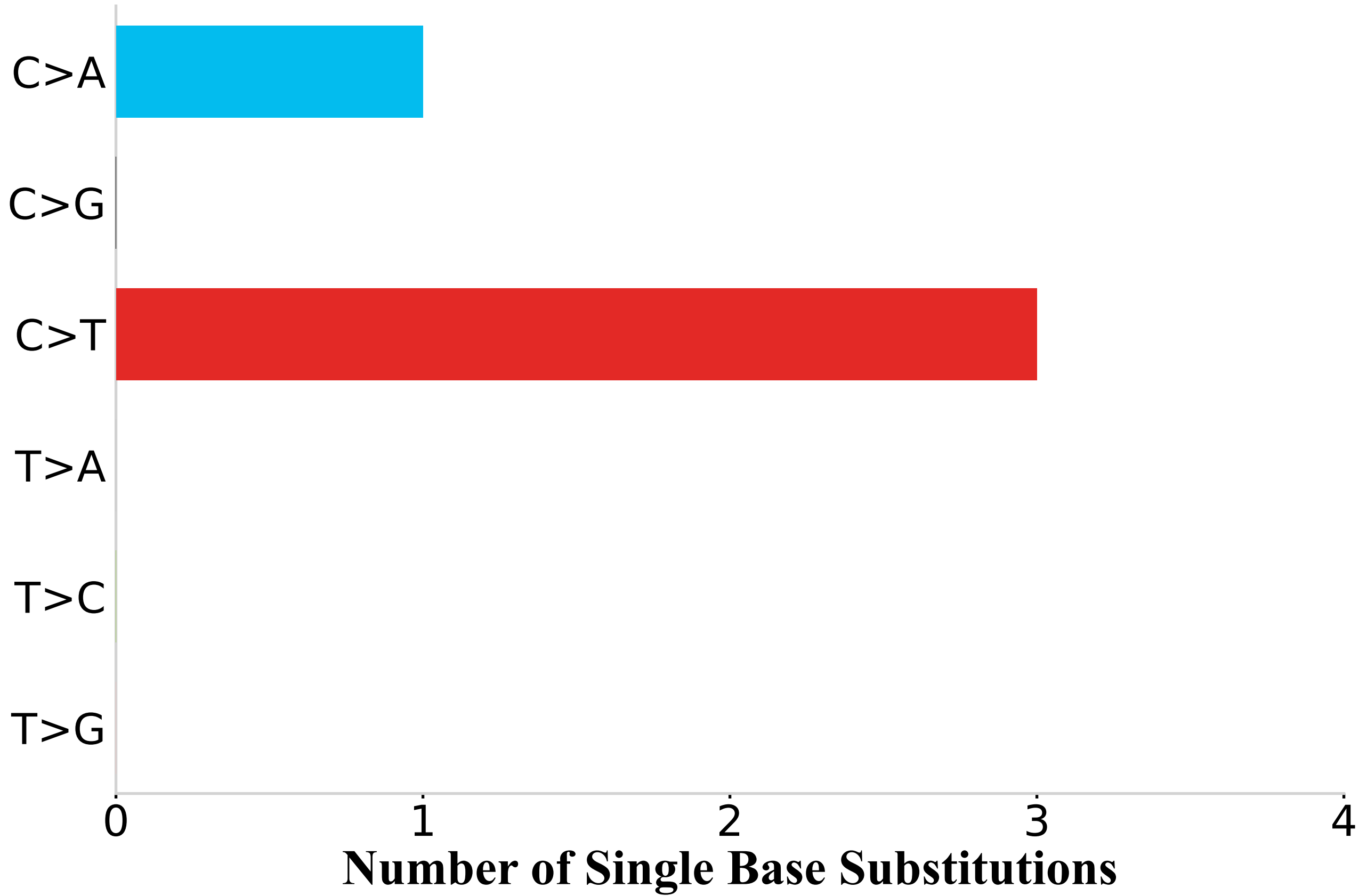
P-0041006-T01-IM6: 6 subs



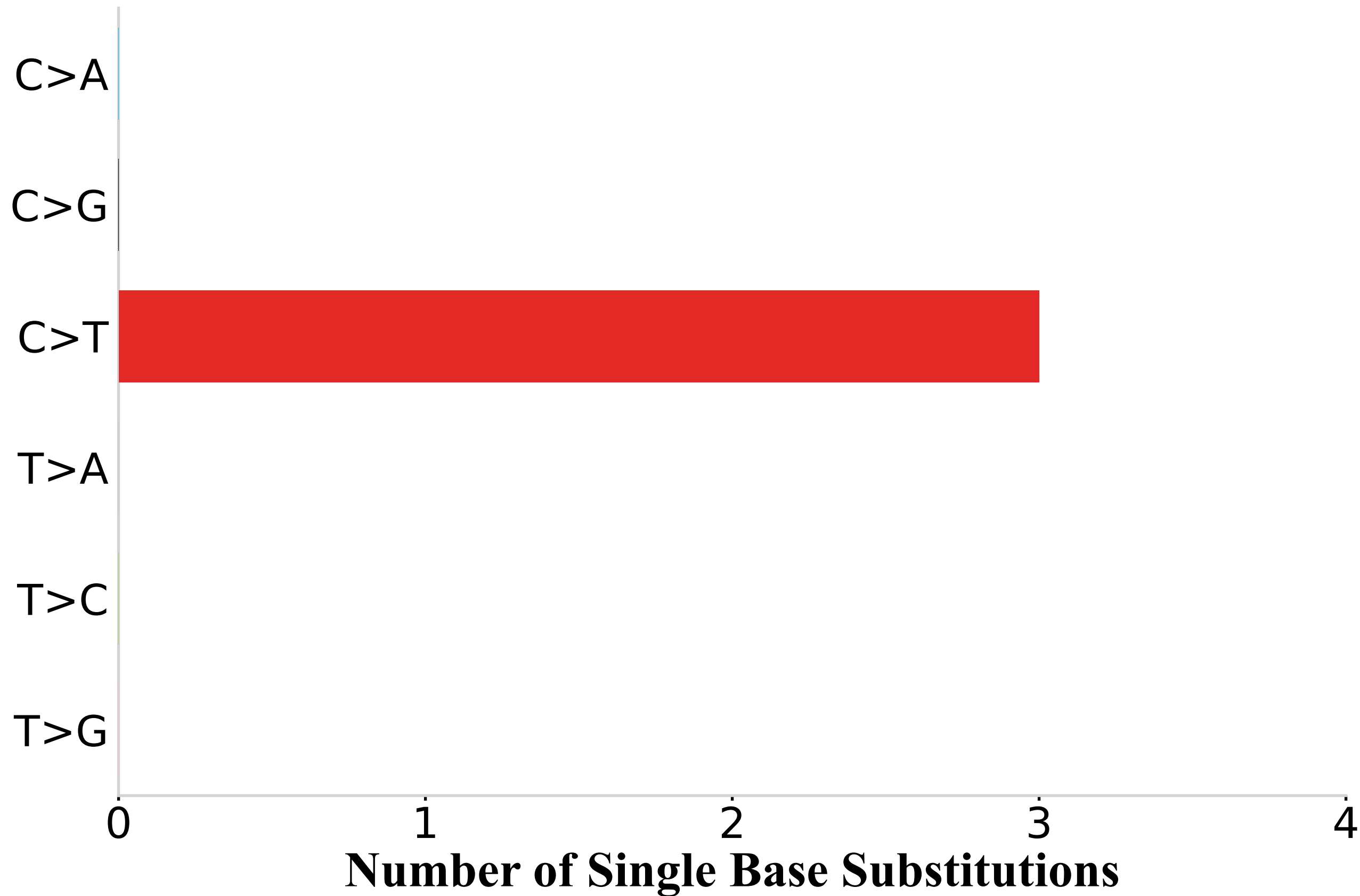
P-0041108-T01-IM6: 3 subs



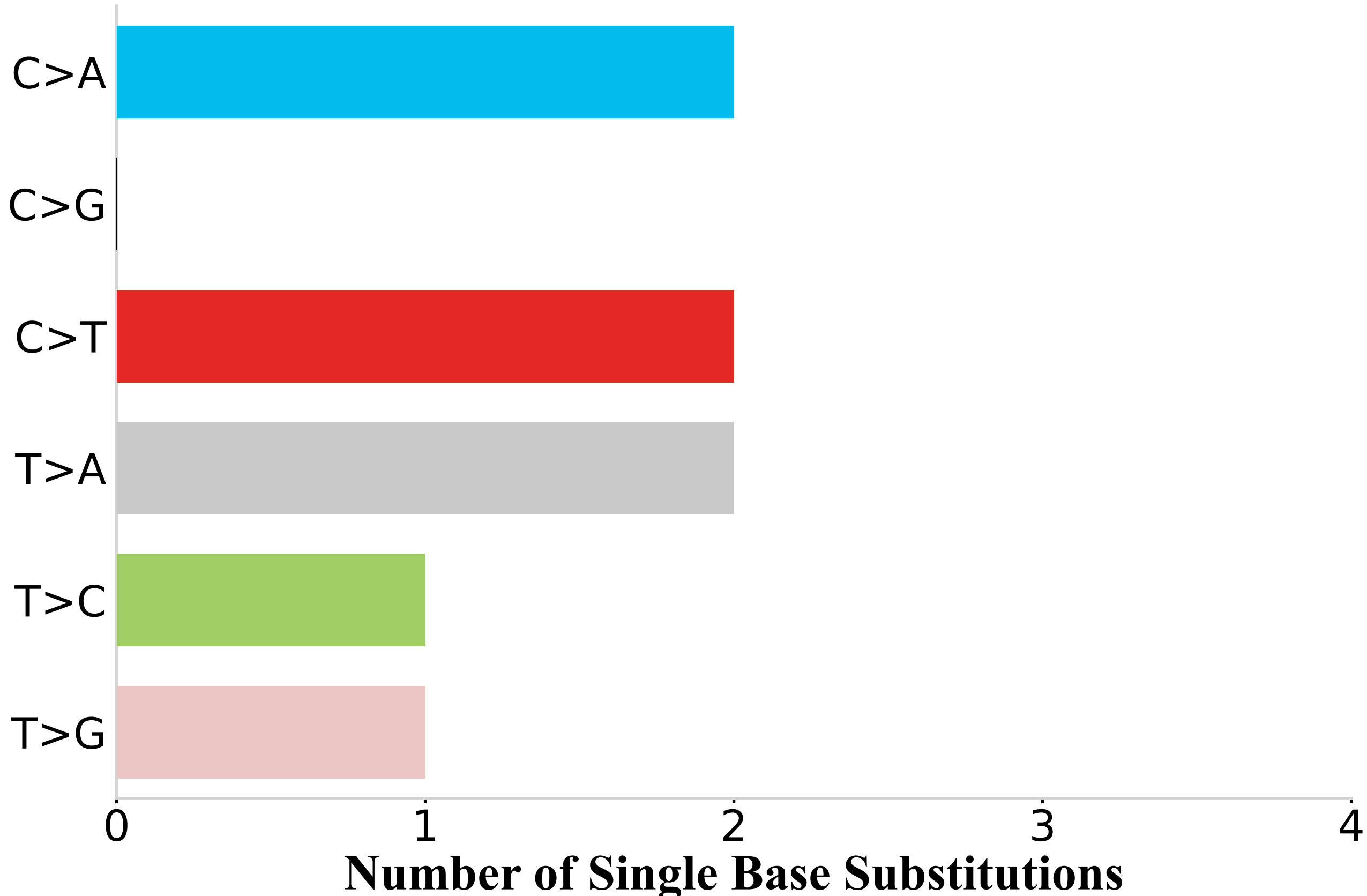
P-0041211-T01-IM6: 4 subs



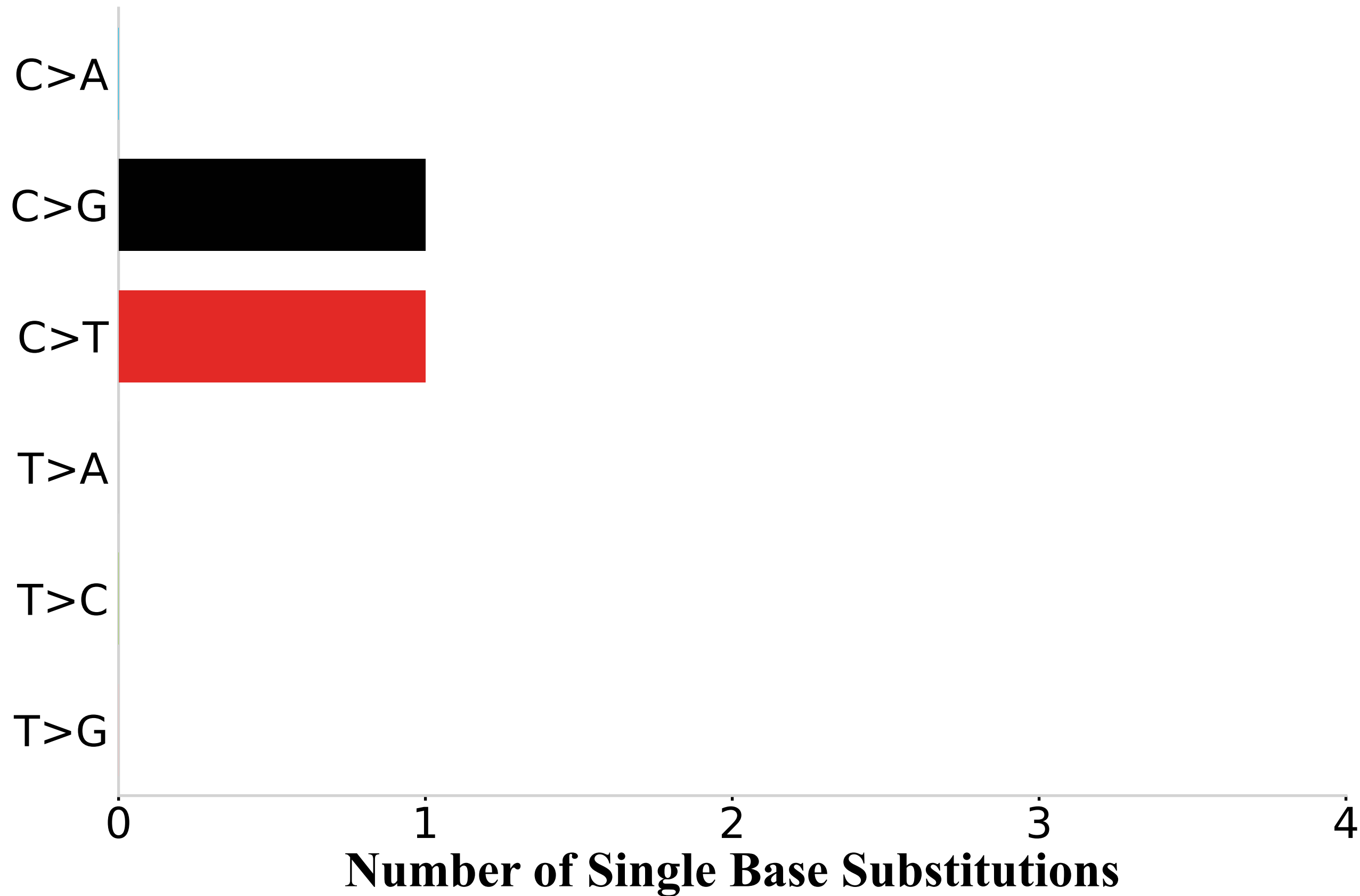
P-0041482-T01-IM6: 3 subs



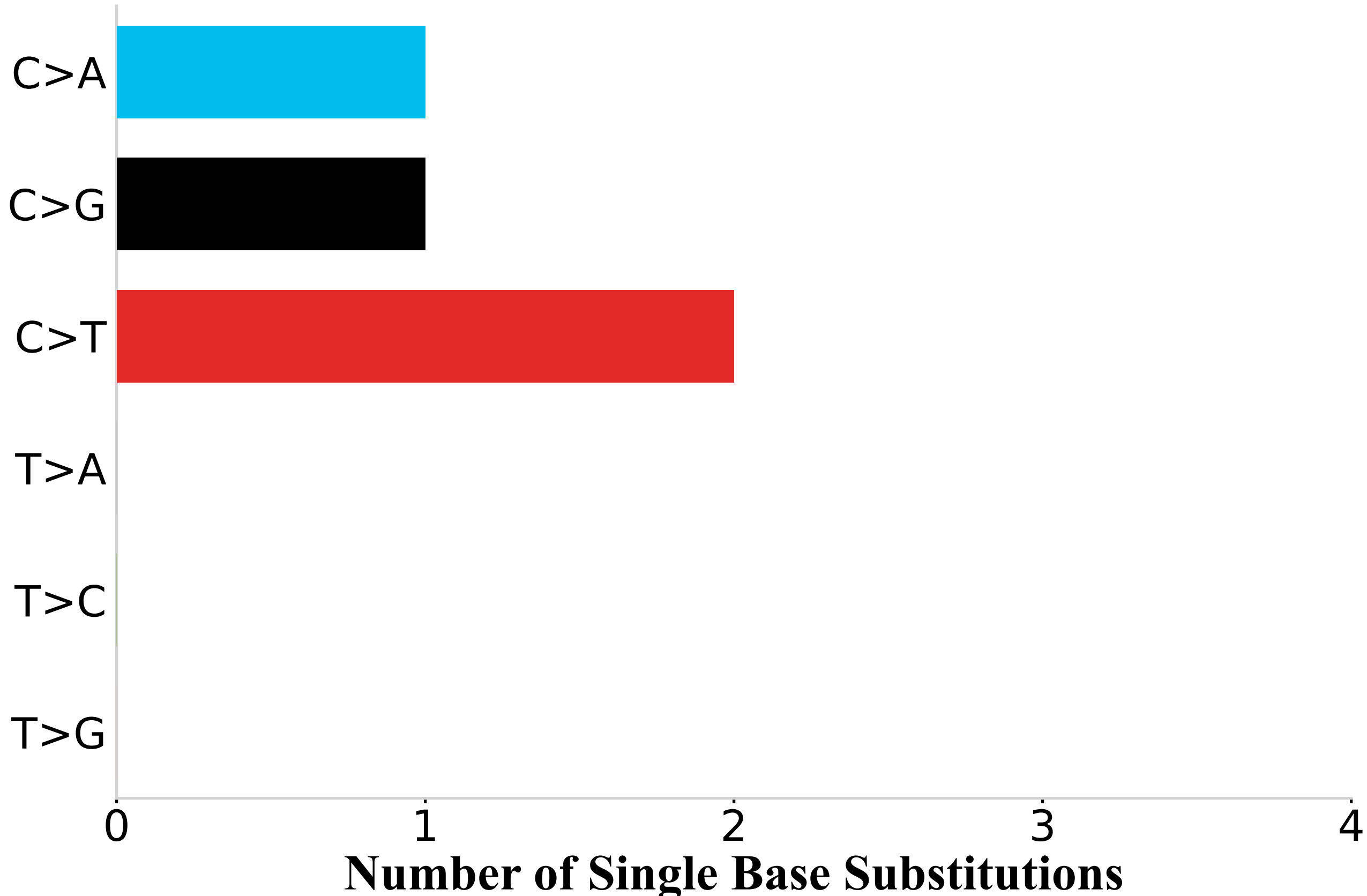
P-0041905-T01-IM6: 8 subs



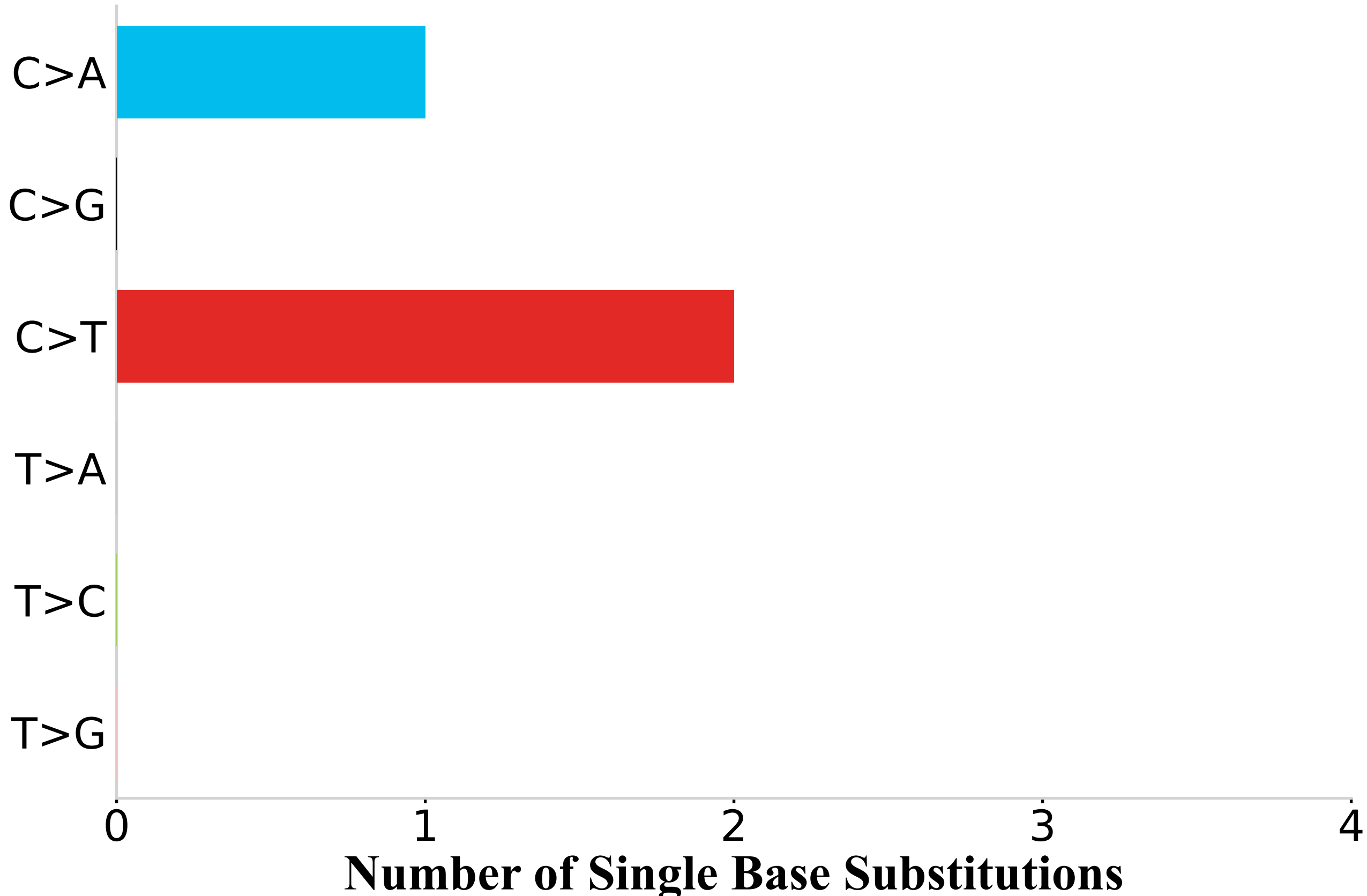
P-0041942-T01-IM6: 2 subs



P-0042015-T01-IM6: 4 subs



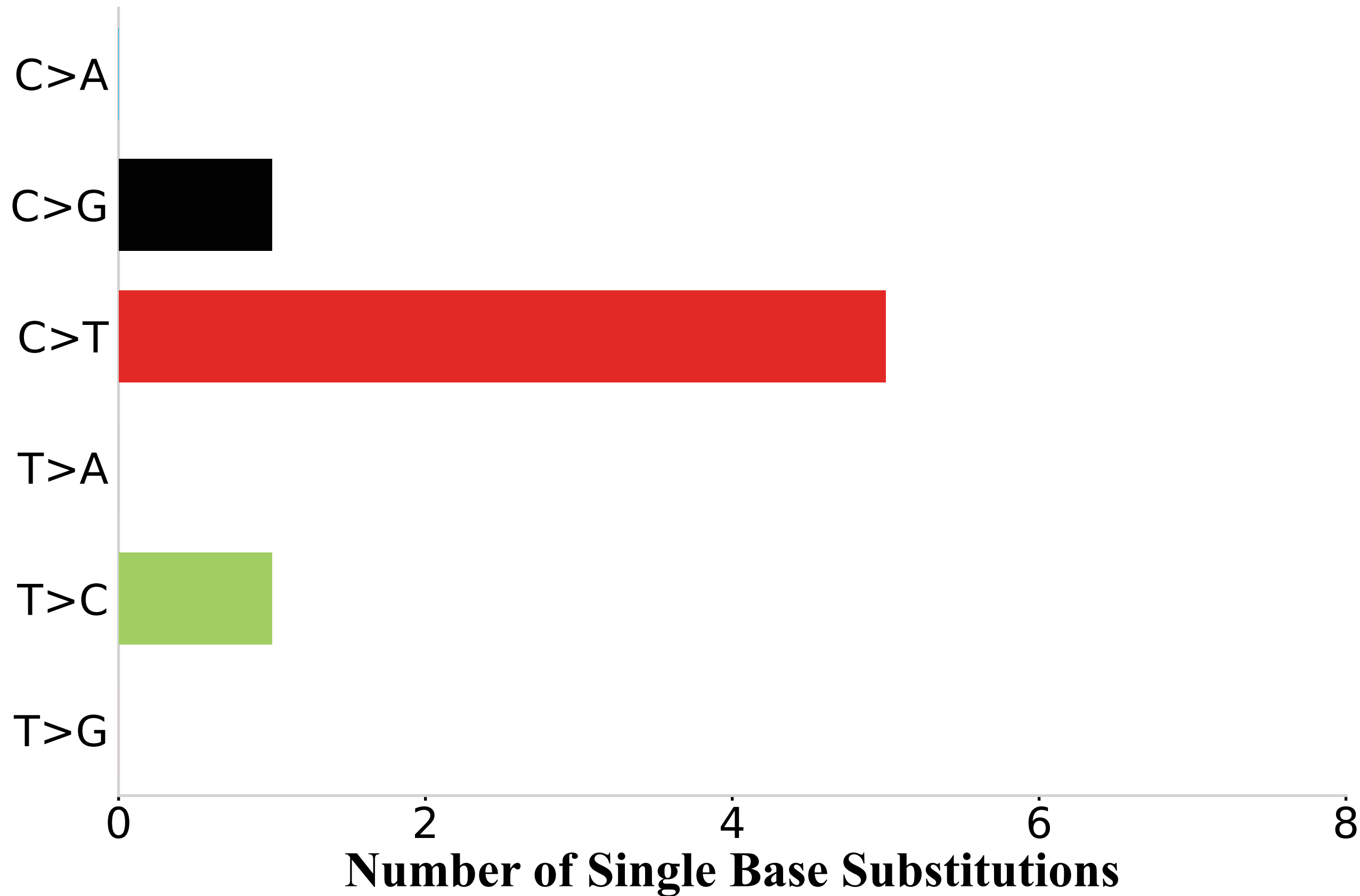
P-0042081-T01-IM6: 3 subs



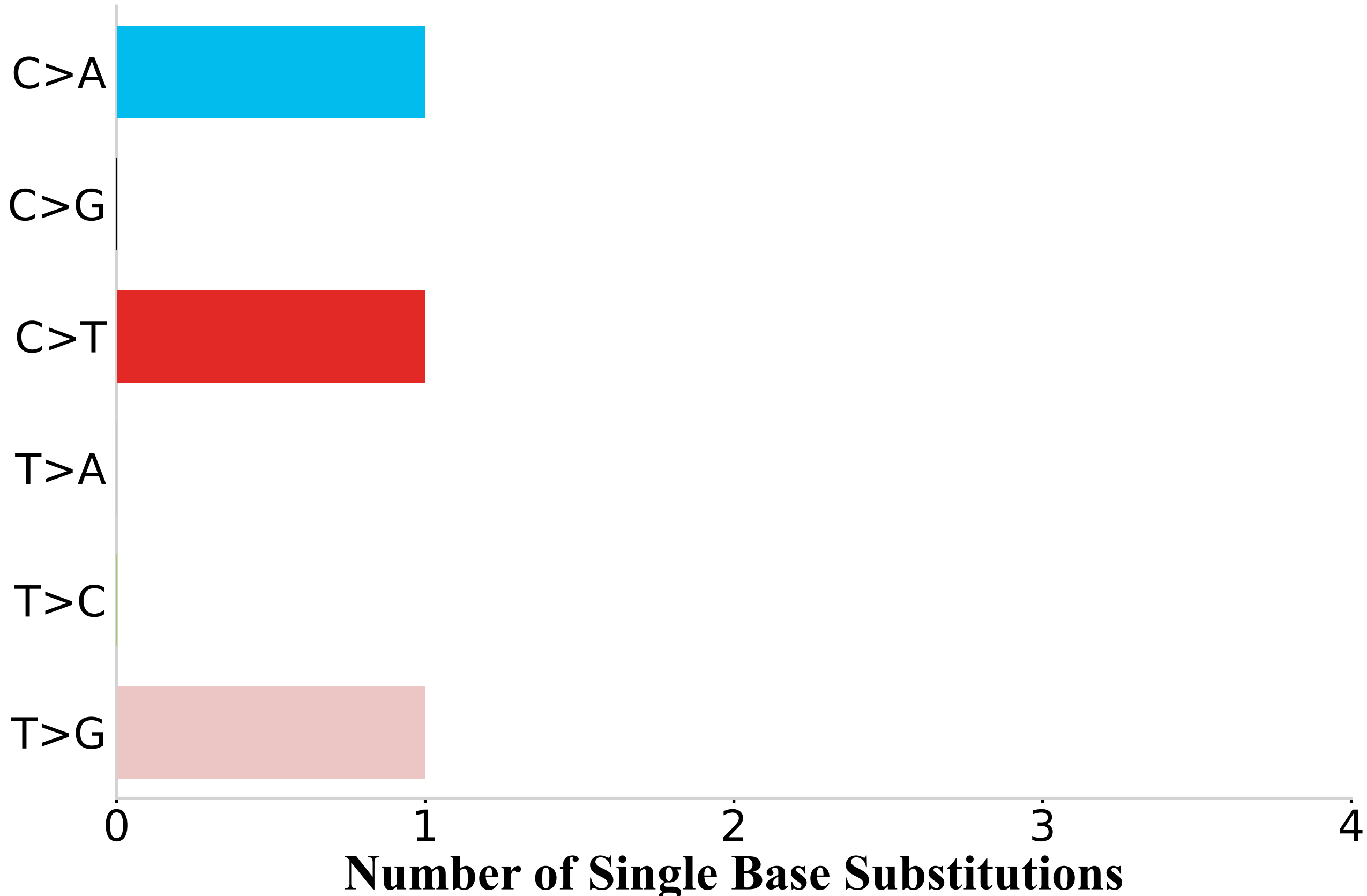
P-0042136-T01-IM6: 2 subs



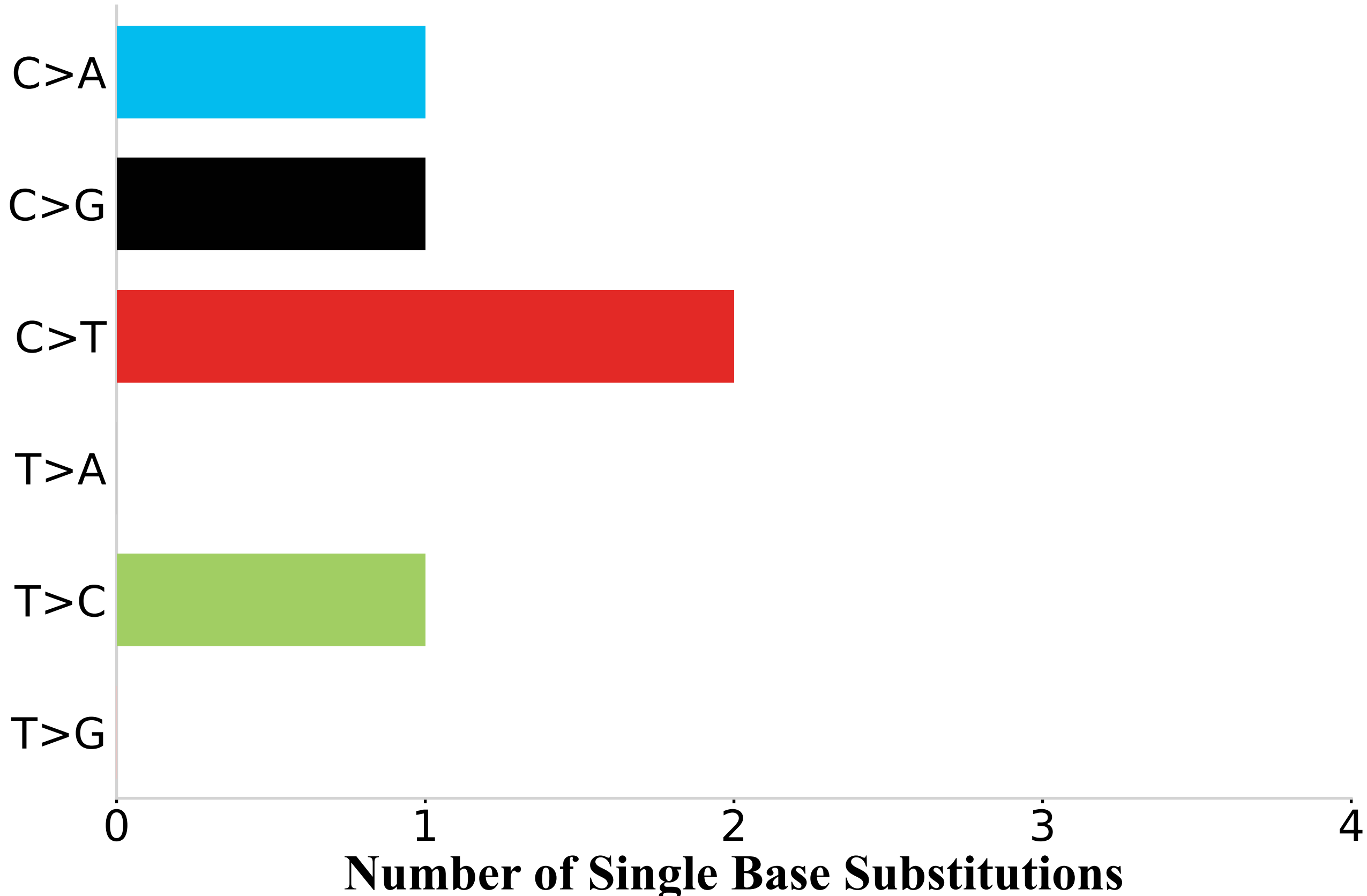
P-0042157-T02-IM6: 7 subs



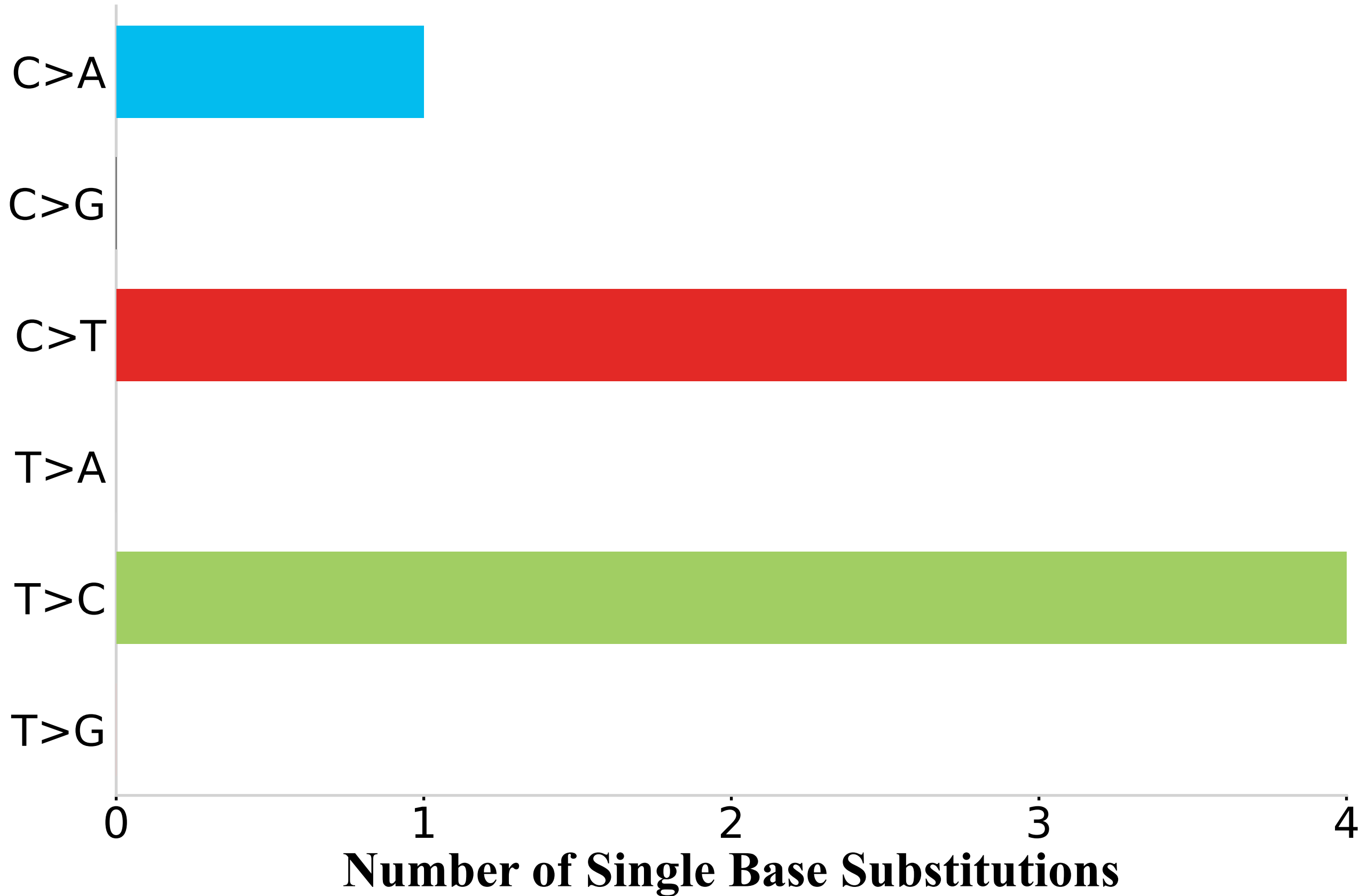
P-0042222-T01-IM6: 3 subs



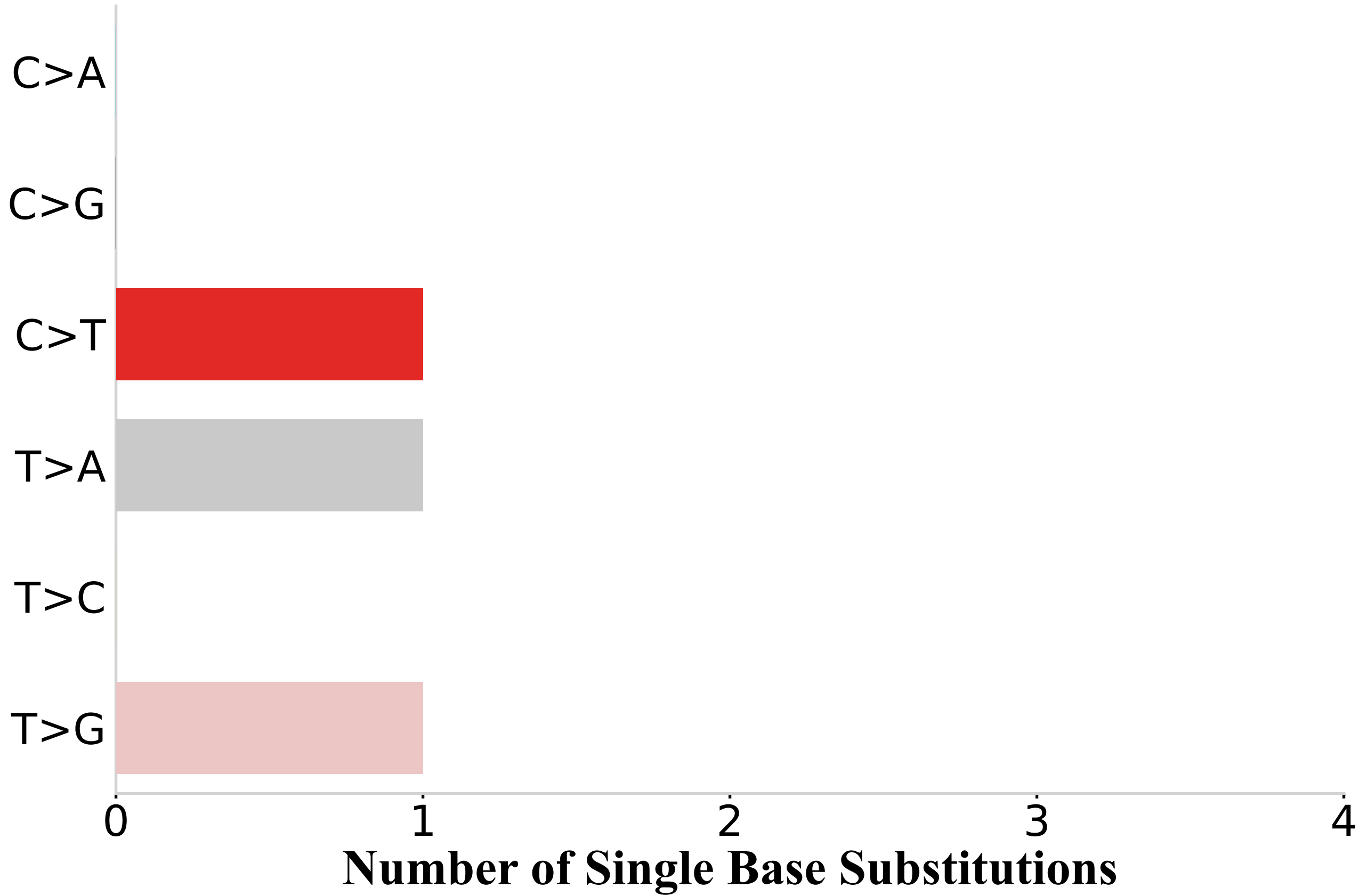
P-0042315-T01-IM6: 5 subs



P-0042497-T01-IM6: 9 subs



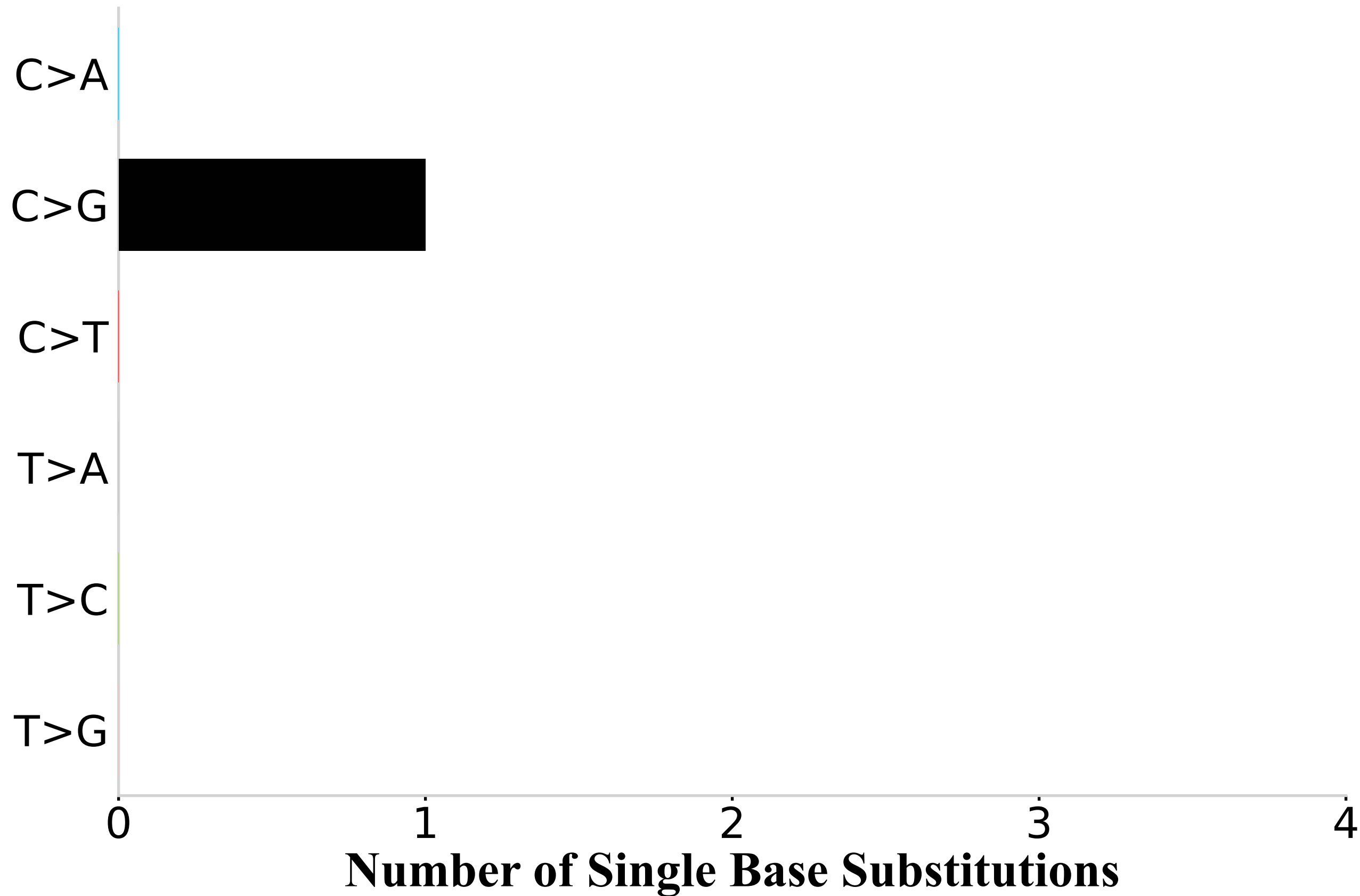
P-0042519-T01-IM6: 3 subs



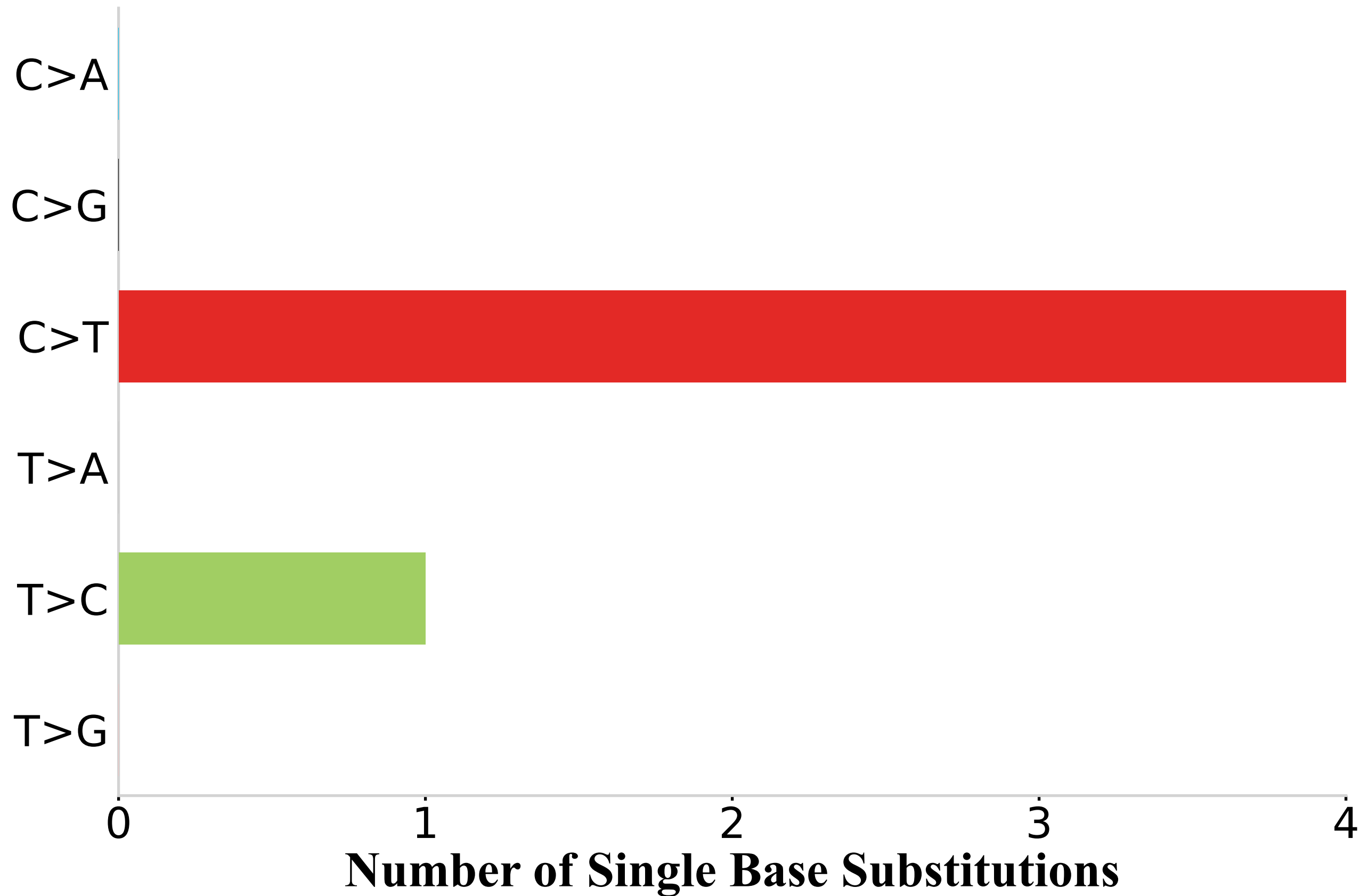
P-0042649-T01-IM6: 2 subs



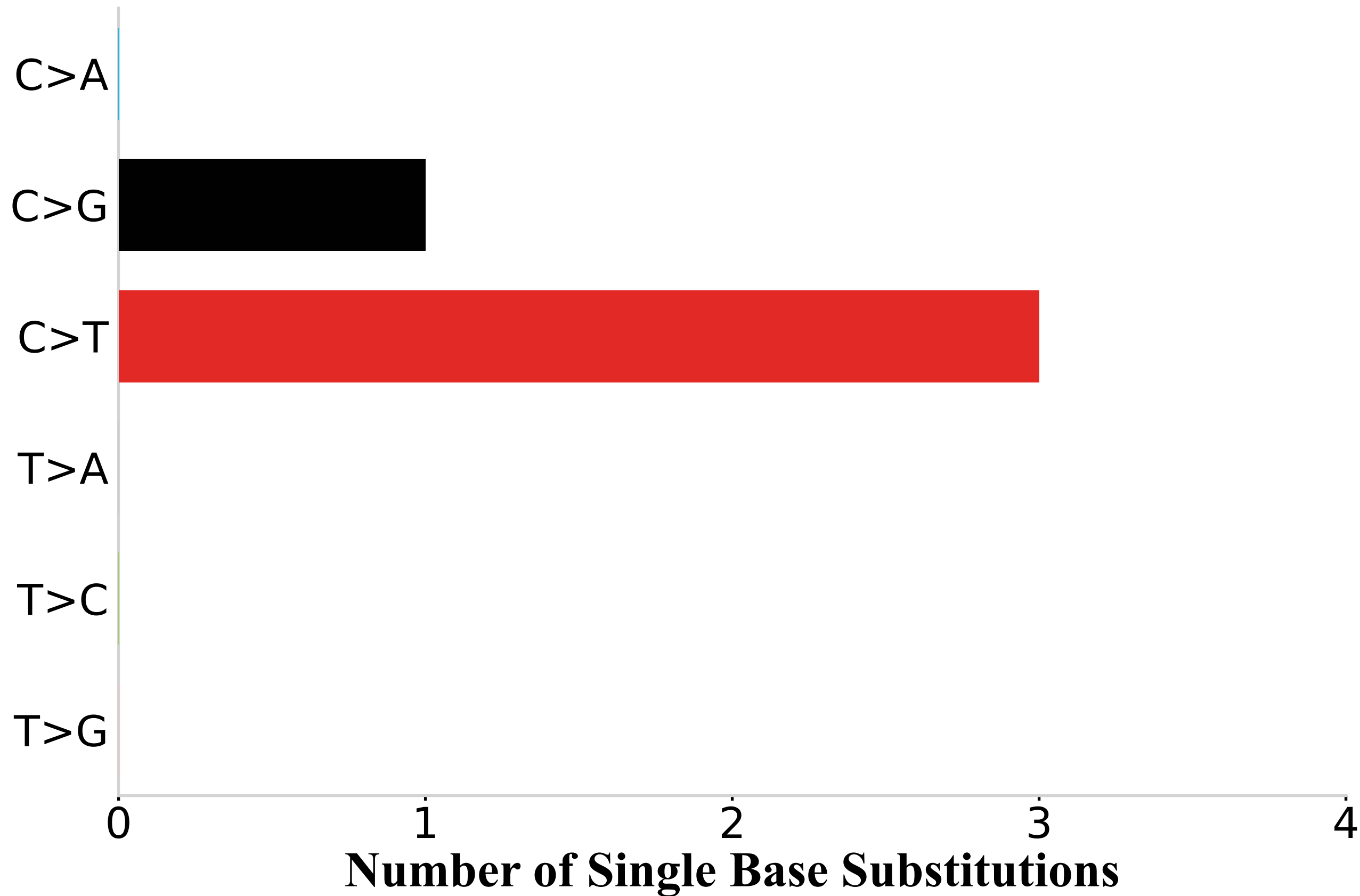
P-0042800-T01-IM6: 1 subs



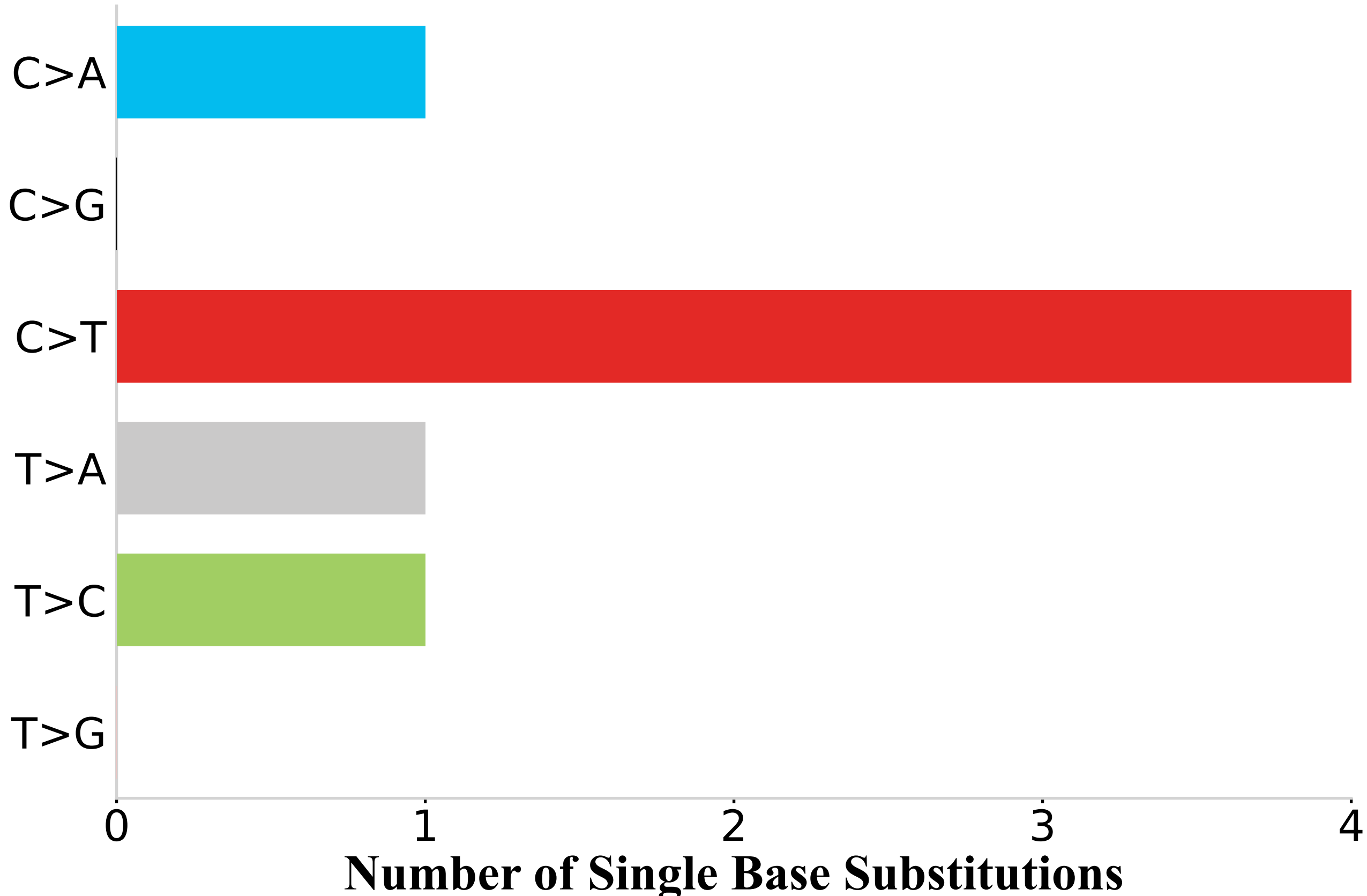
P-0042909-T01-IM6: 5 subs



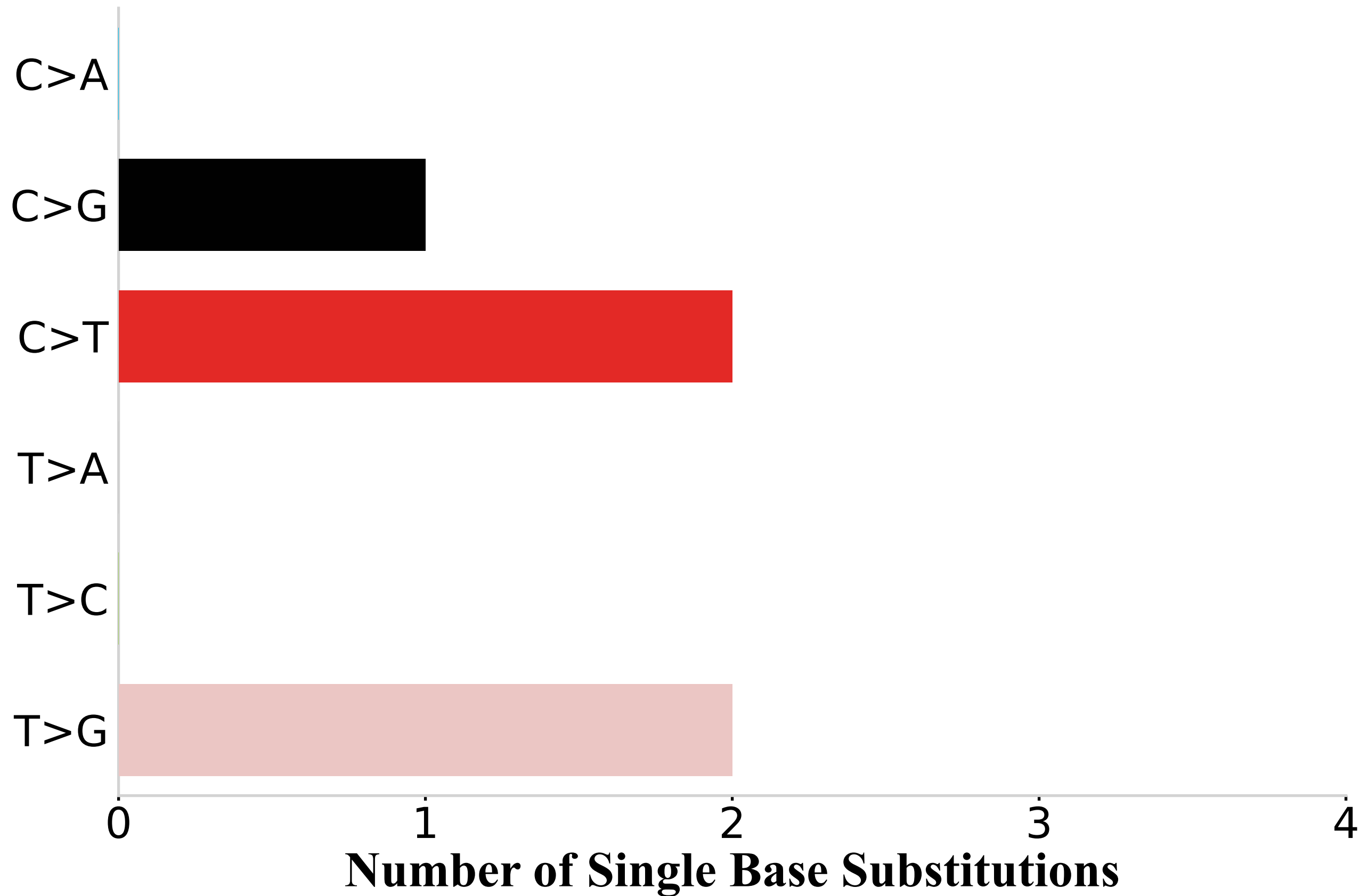
P-0042994-T01-IM6: 4 subs



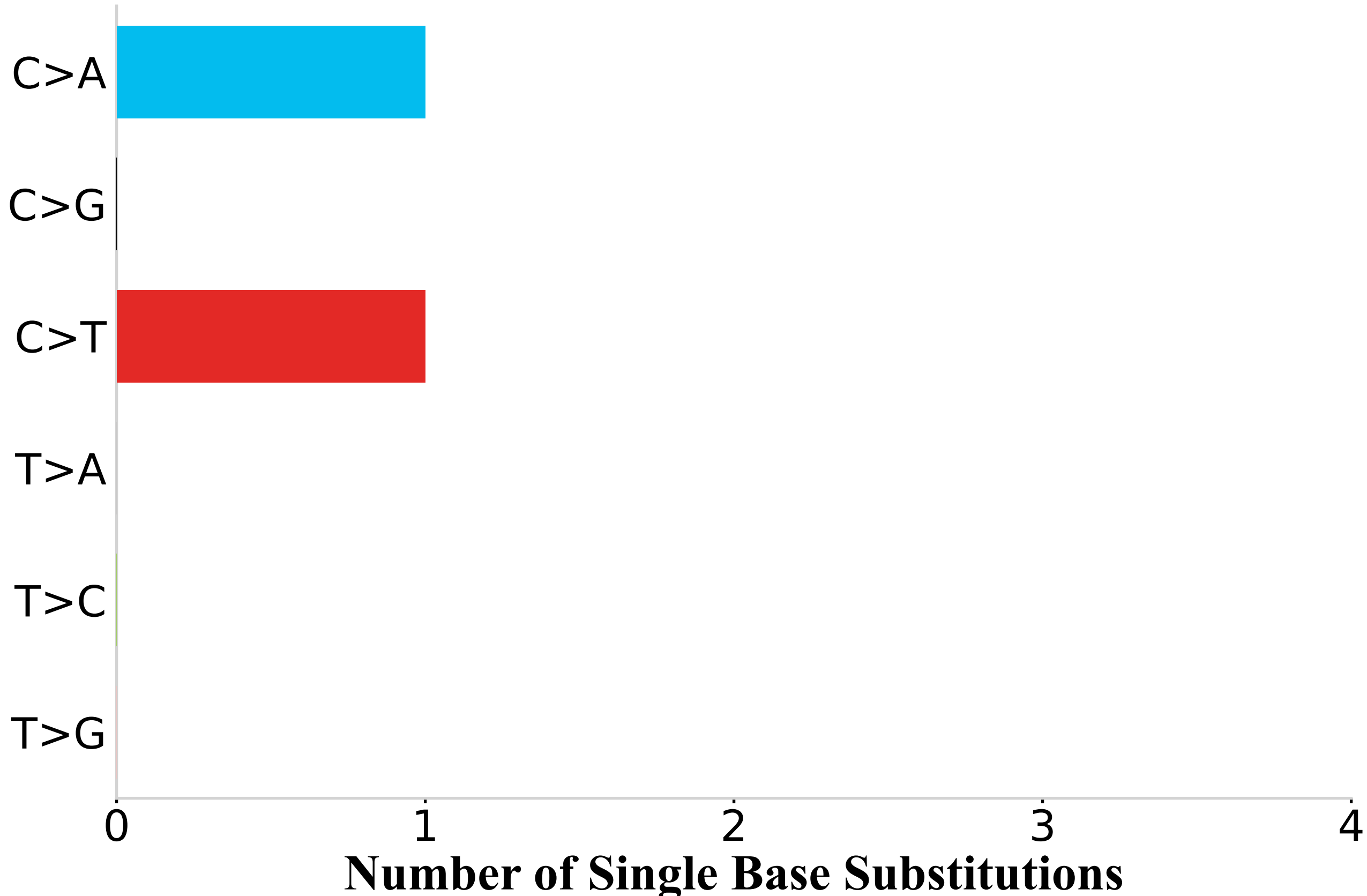
P-0042998-T02-IM6: 7 subs



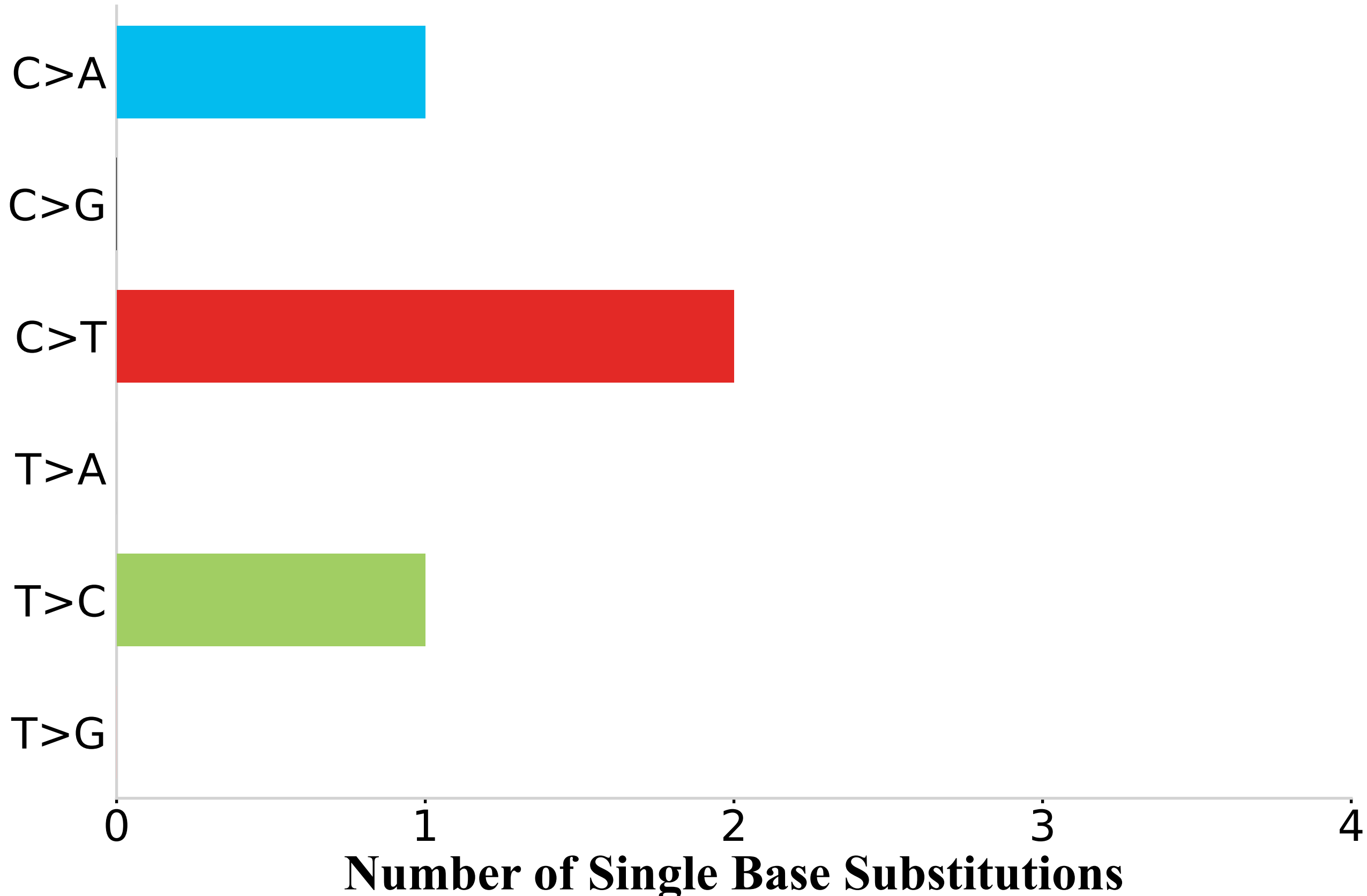
P-0043152-T01-IM6: 5 subs



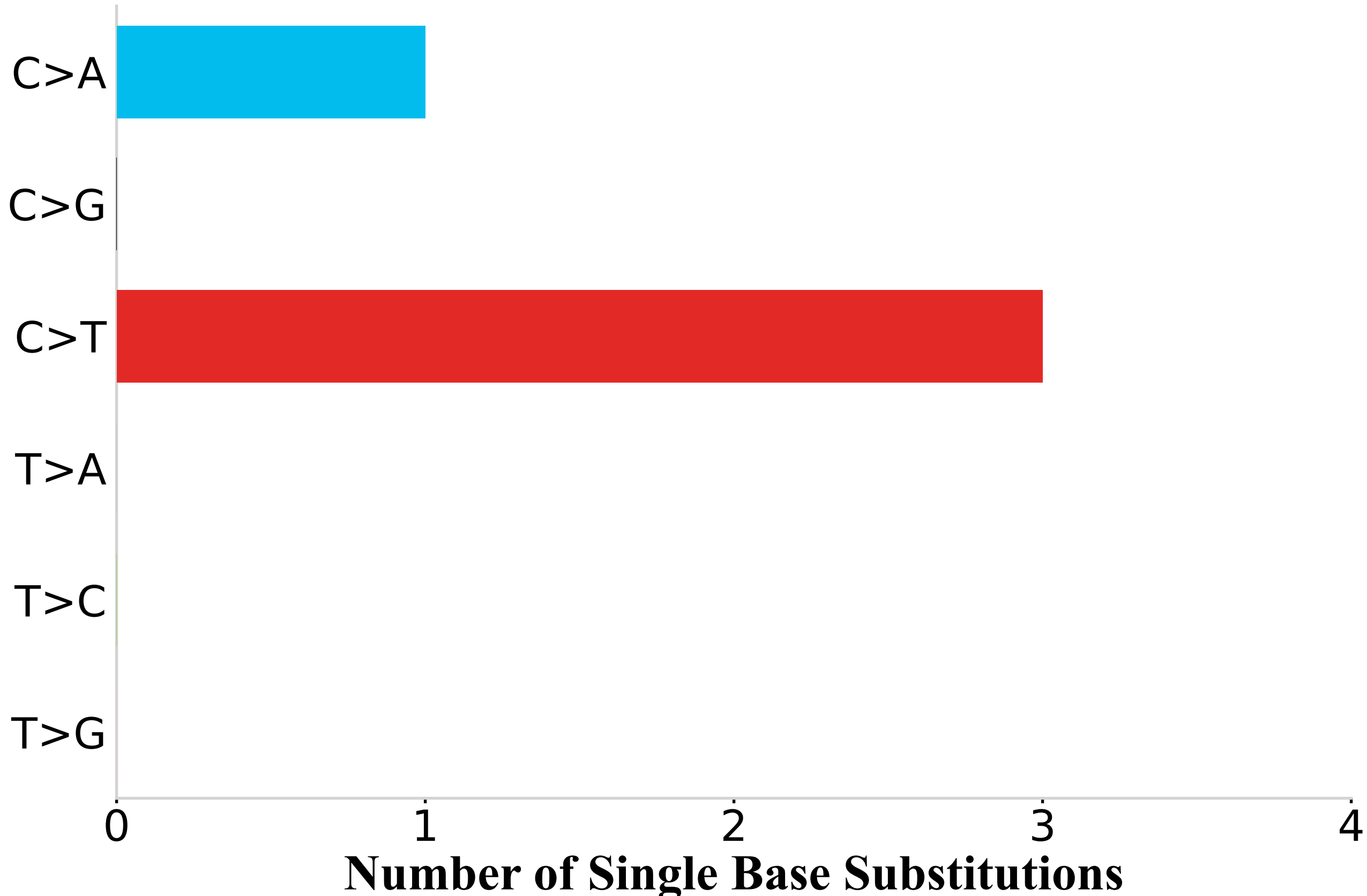
P-0043476-T01-IM6: 2 subs



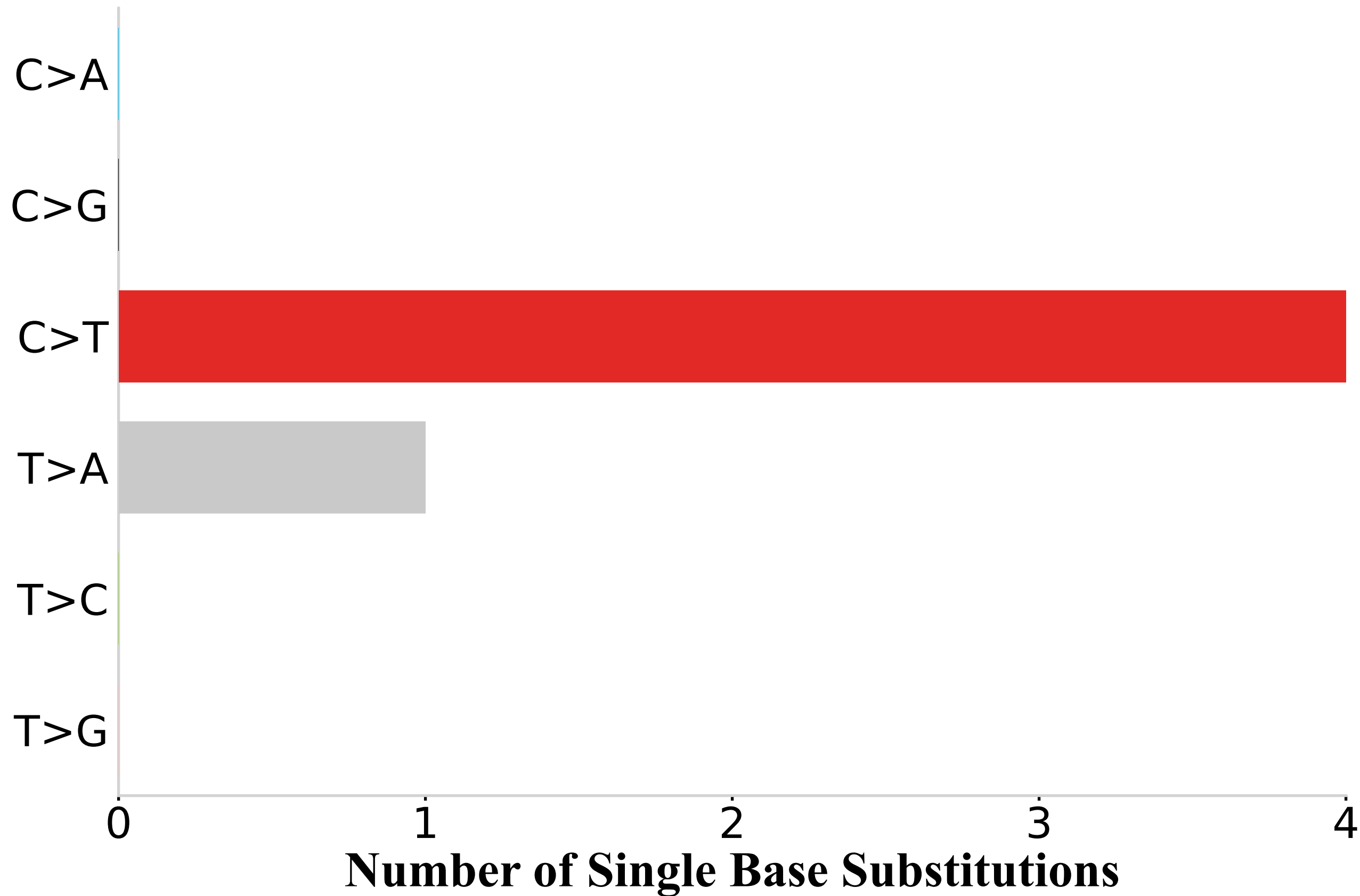
P-0043612-T01-IM6: 4 subs



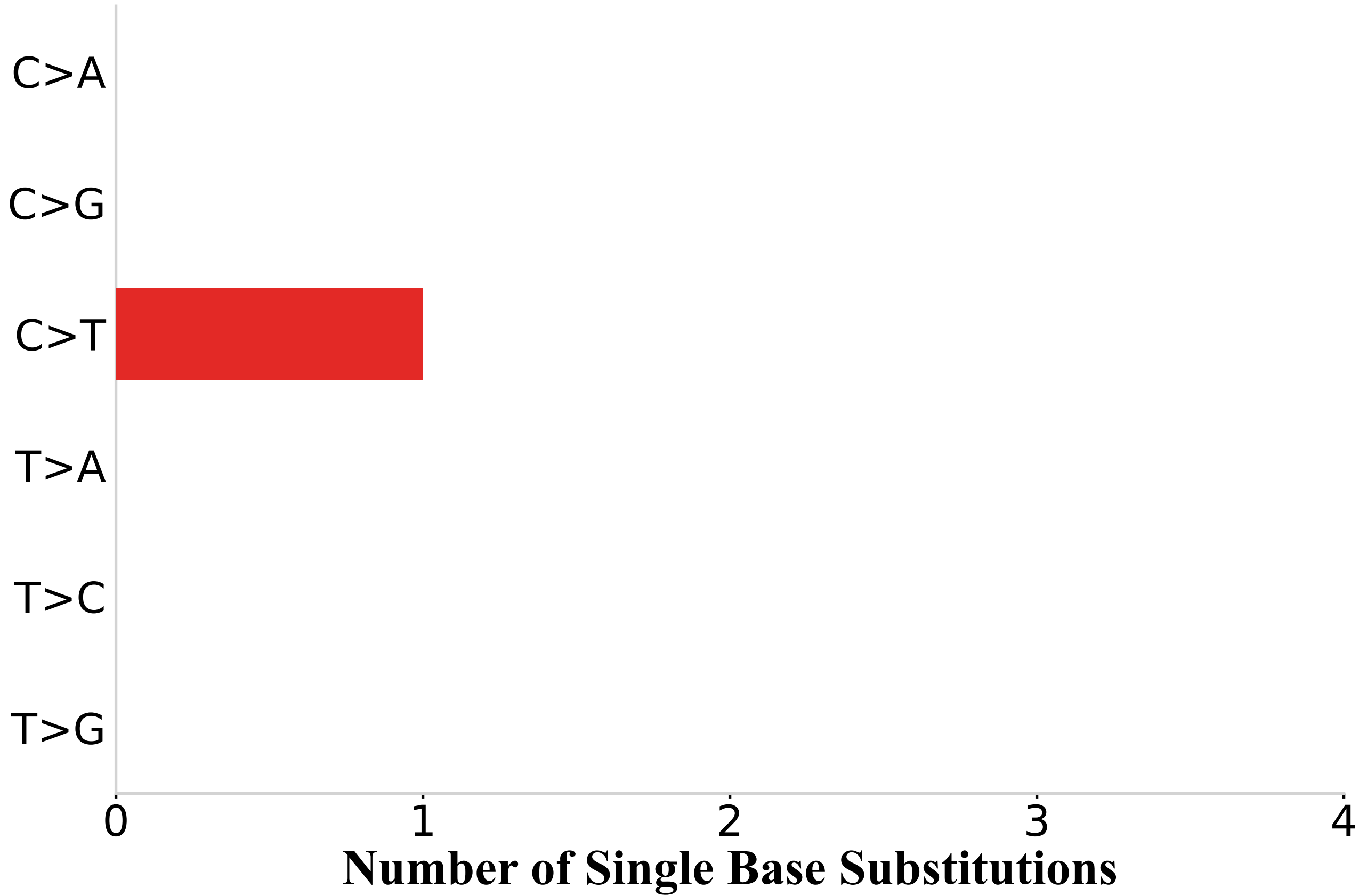
P-0043614-T01-IM6: 4 subs



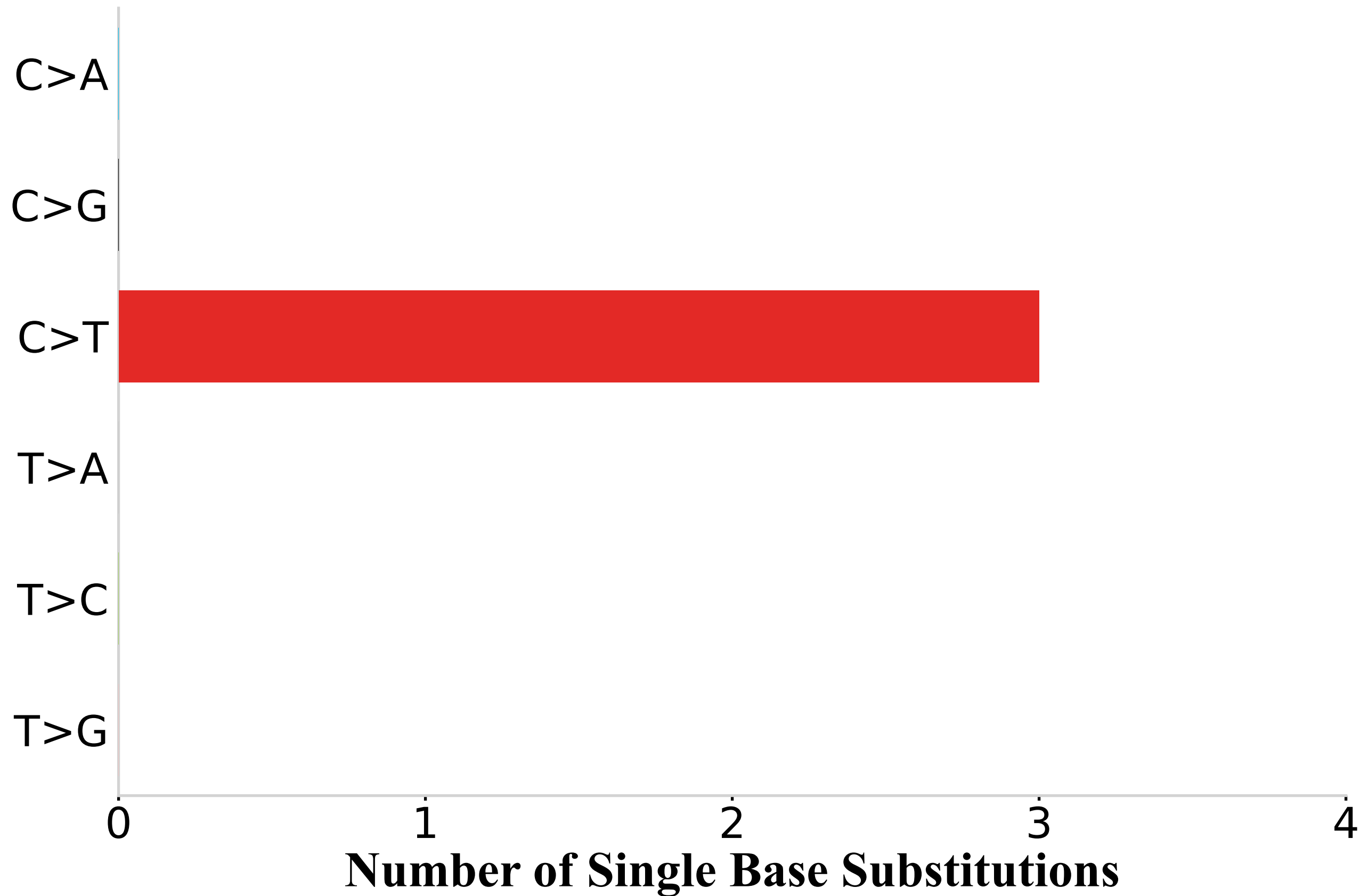
P-0043694-T01-IM6: 5 subs



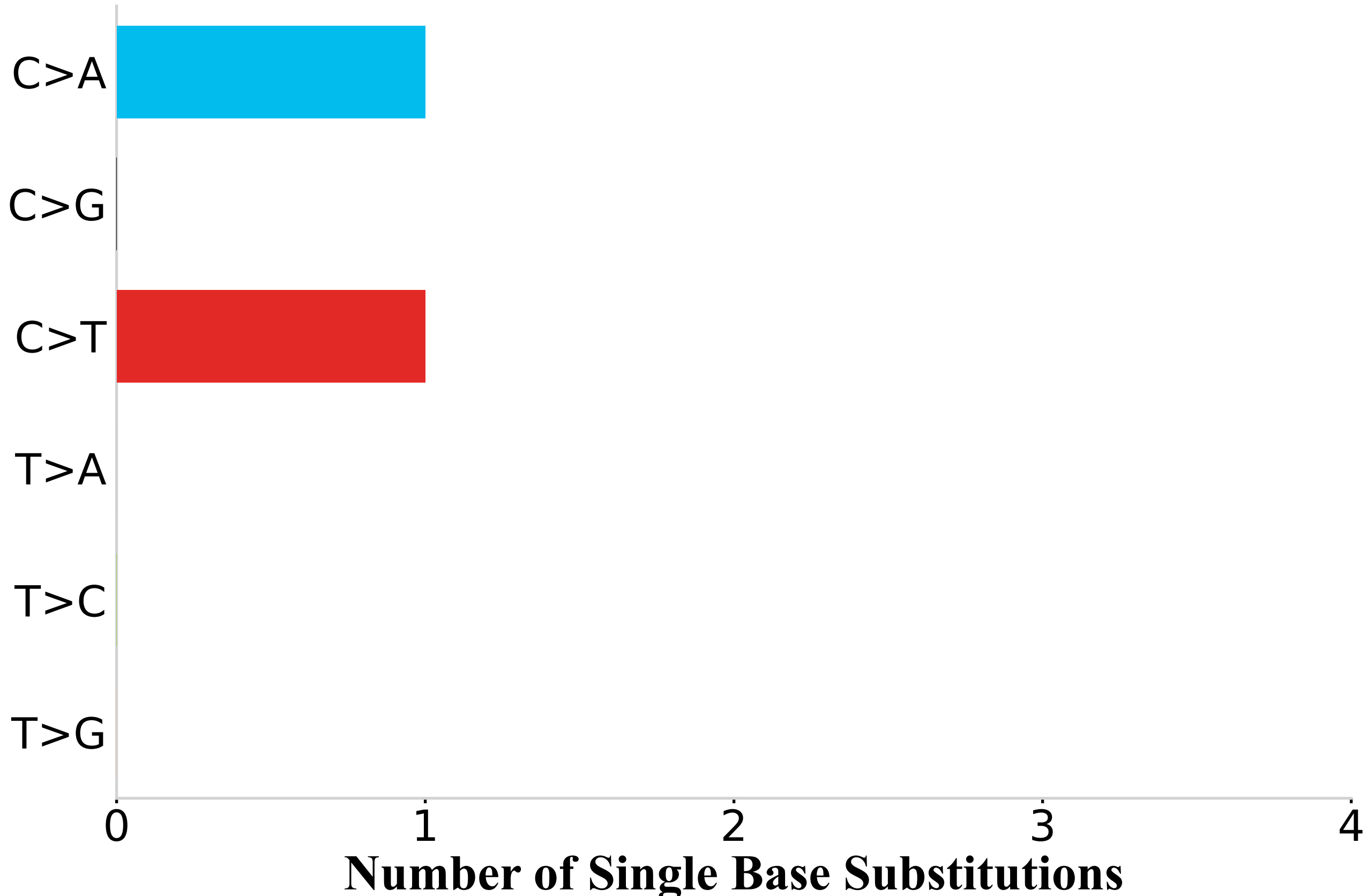
P-0043713-T01-IM6: 1 subs



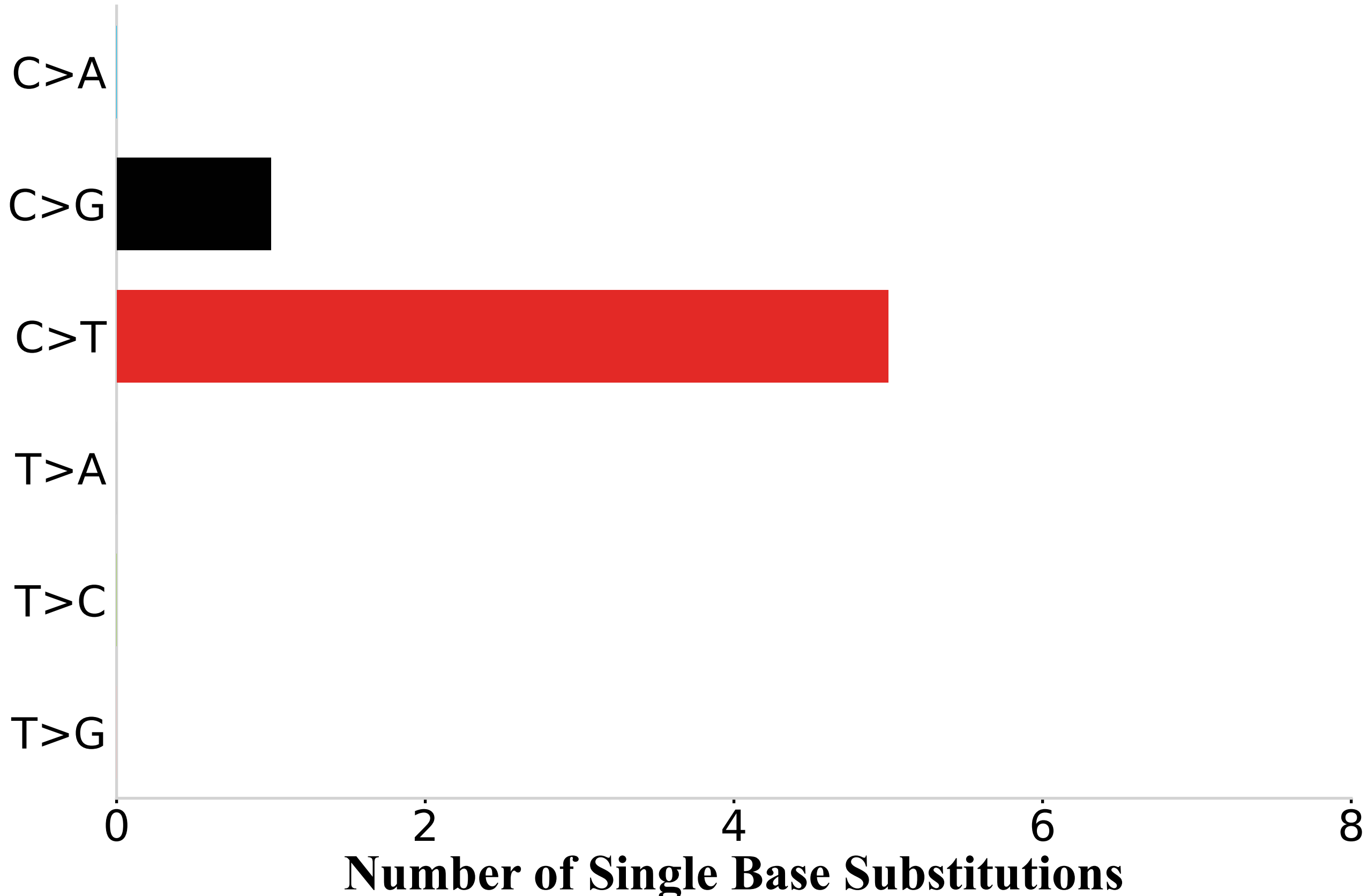
P-0043727-T01-IM6: 3 subs



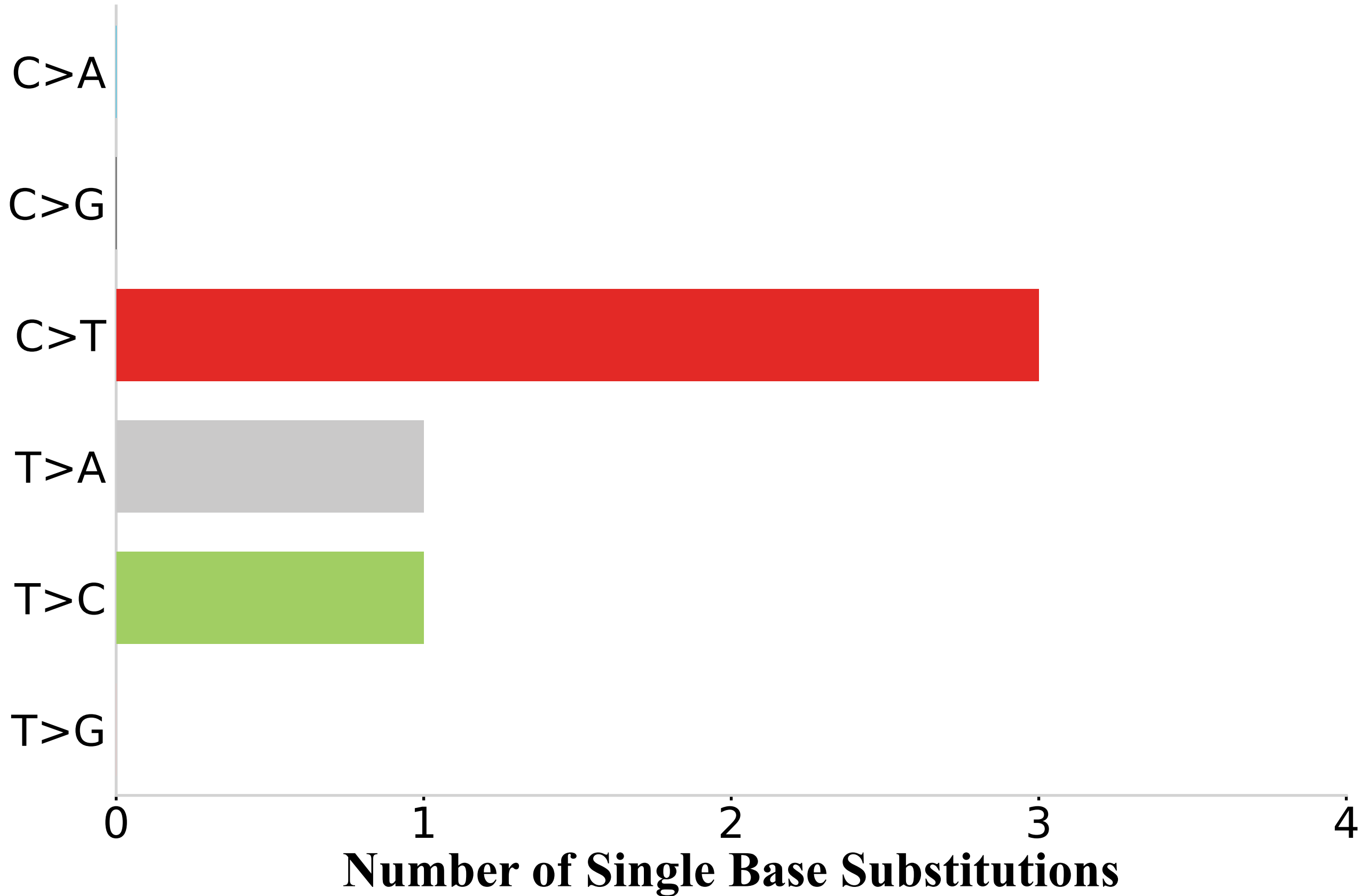
P-0043812-T01-IM6: 2 subs



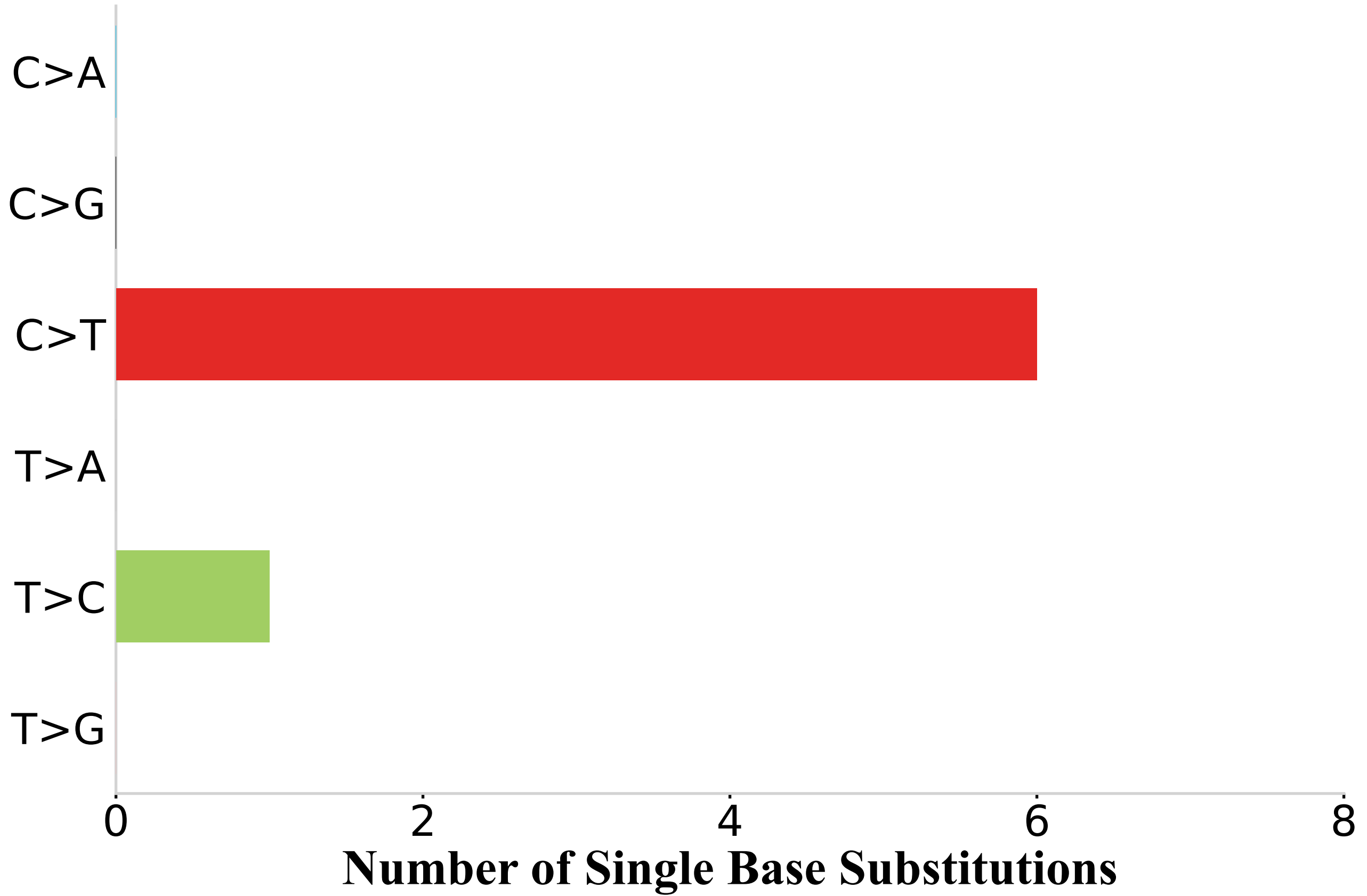
P-0043932-T01-IM6: 6 subs



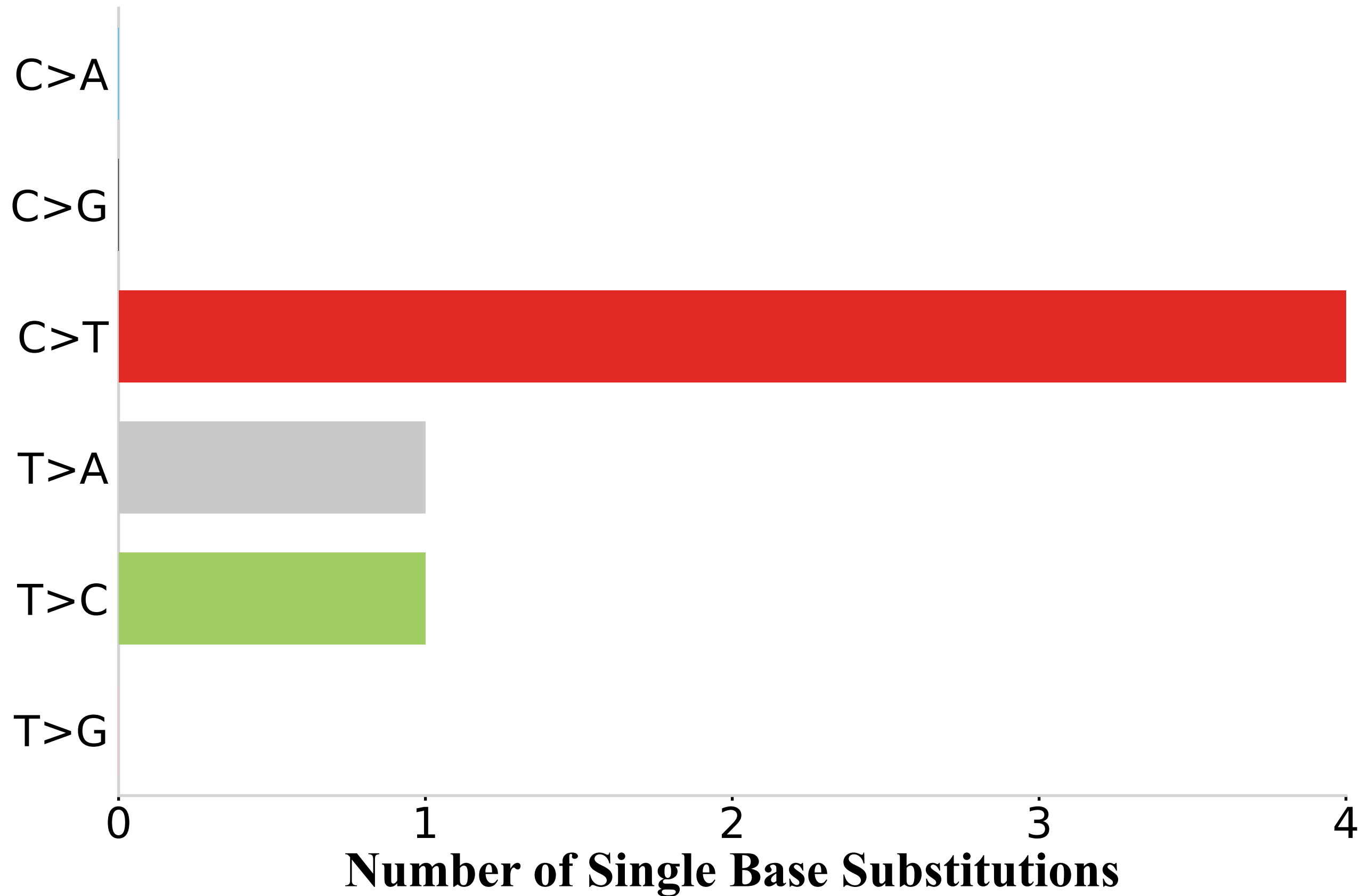
P-0043963-T01-IM6: 5 subs



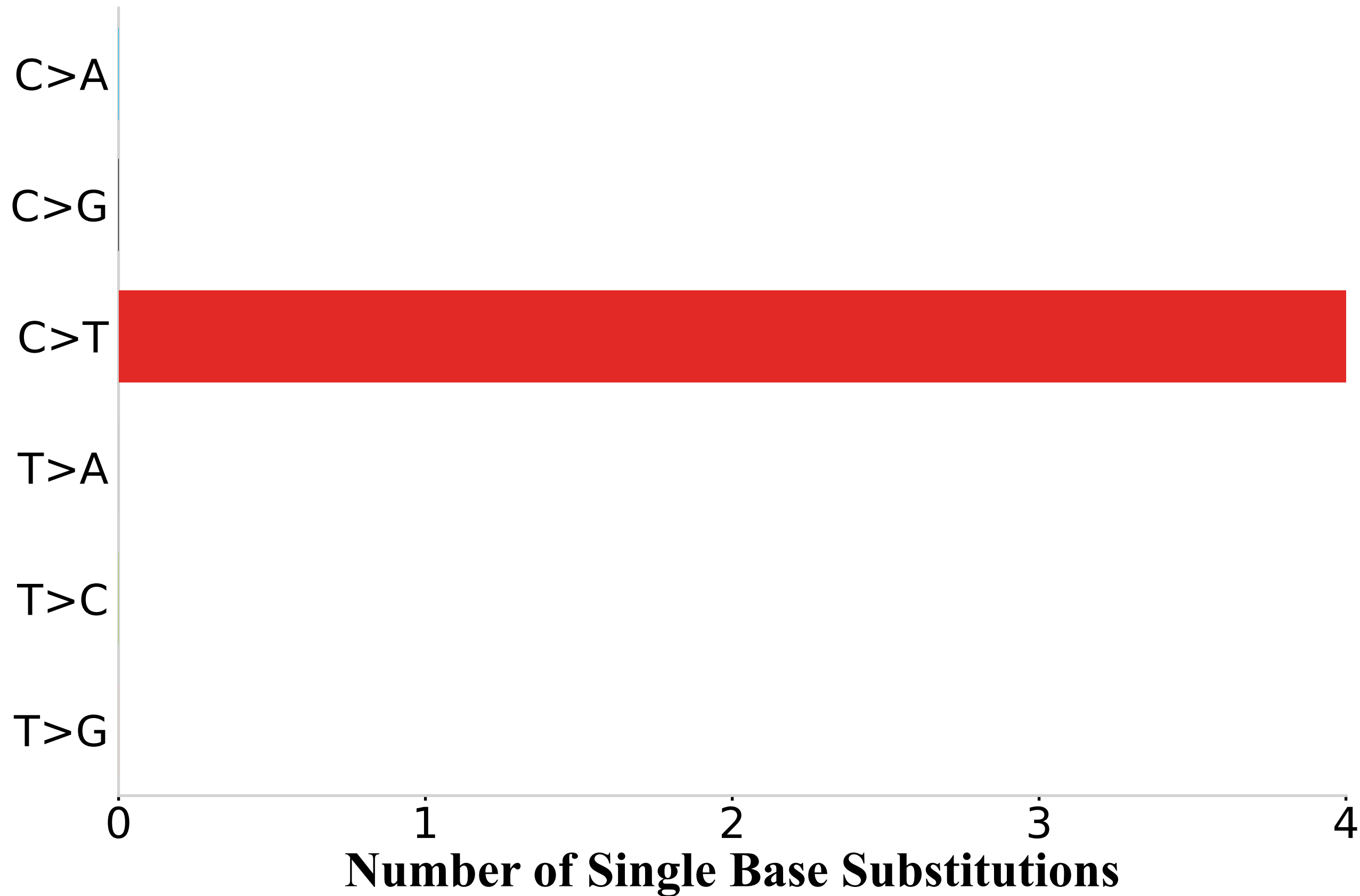
P-0043994-T01-IM6: 7 subs



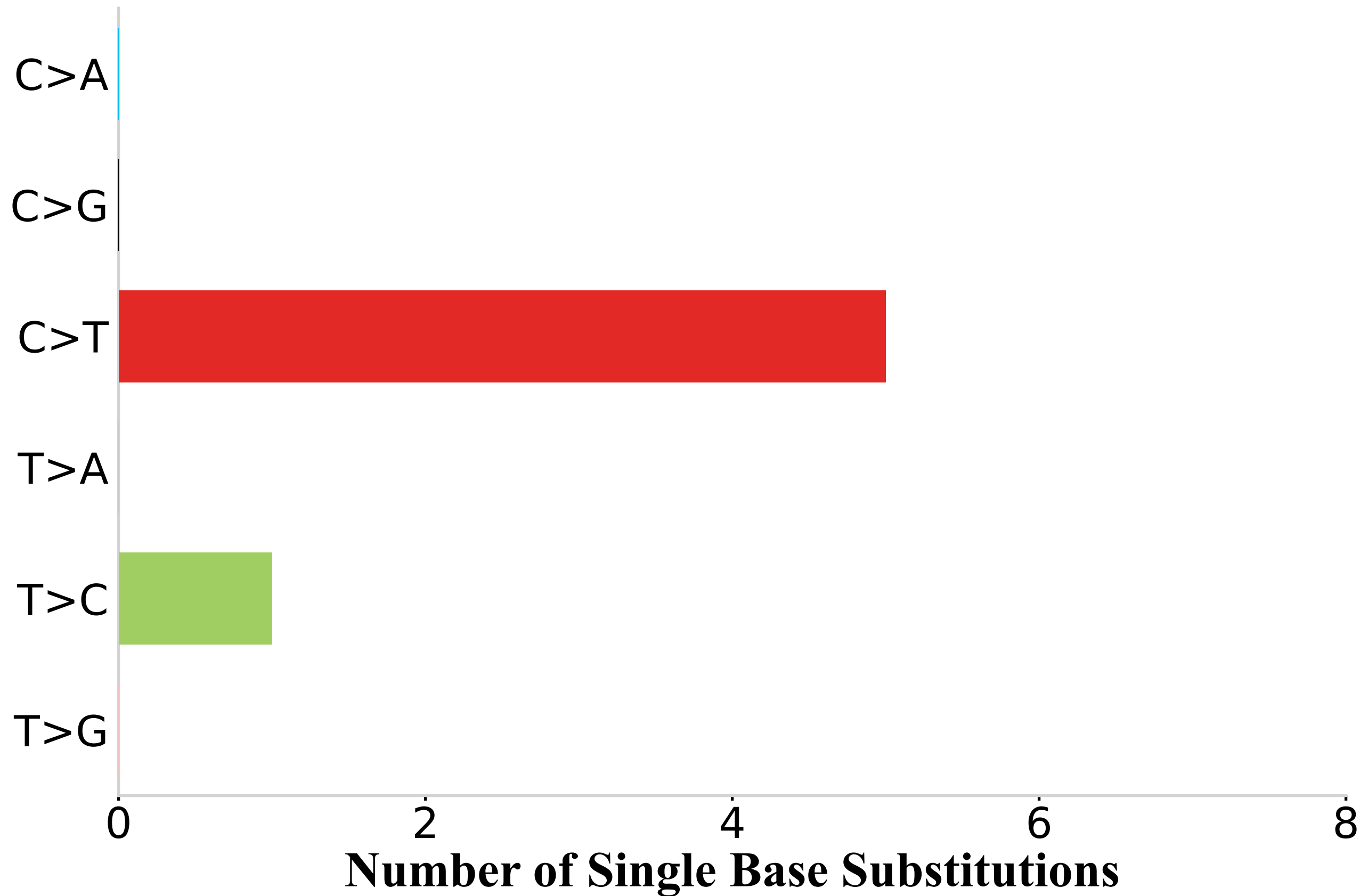
P-0044010-T01-IM6: 6 subs



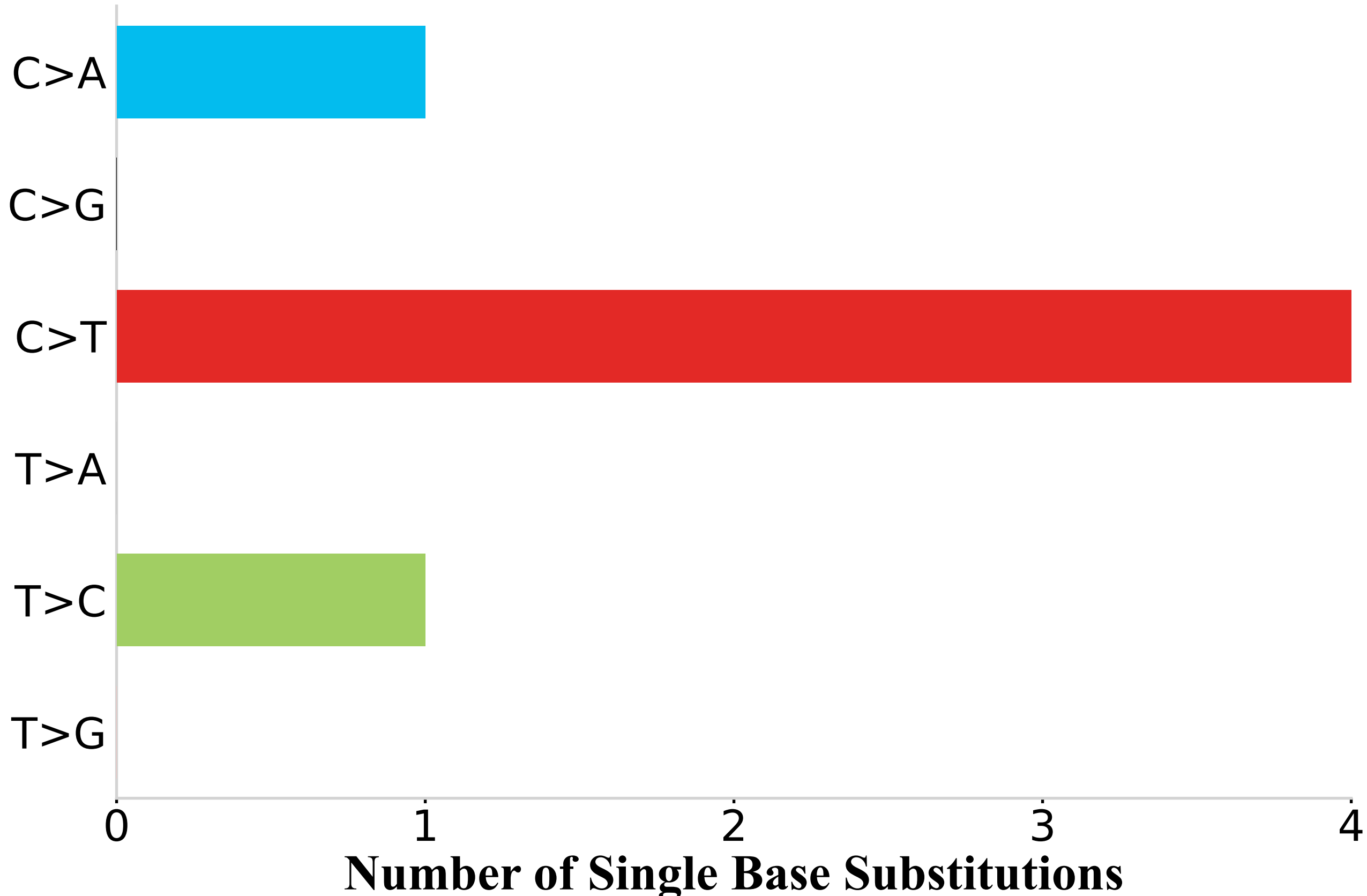
P-0044018-T01-IM6: 4 subs



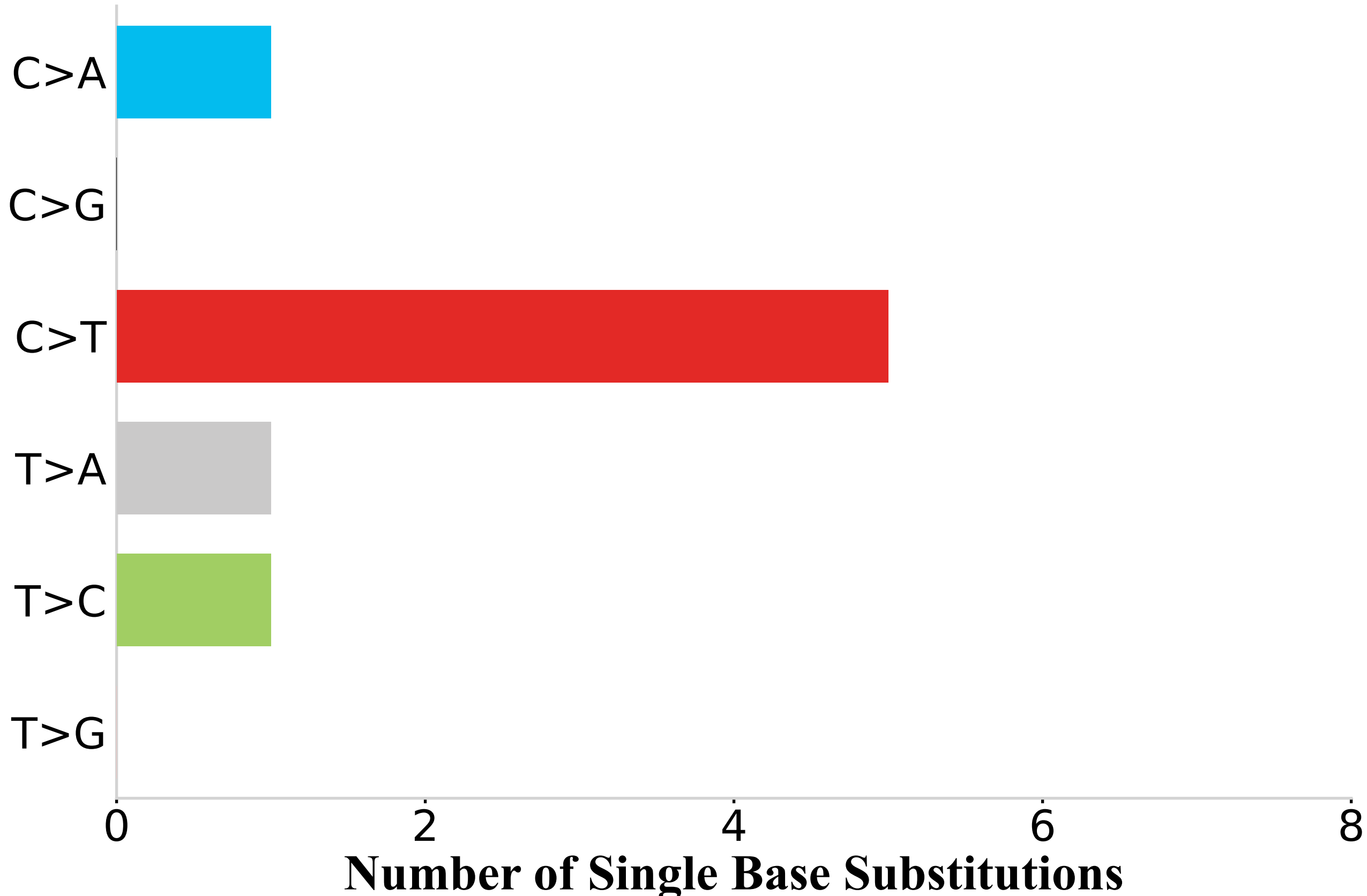
P-0044049-T01-IM6: 6 subs



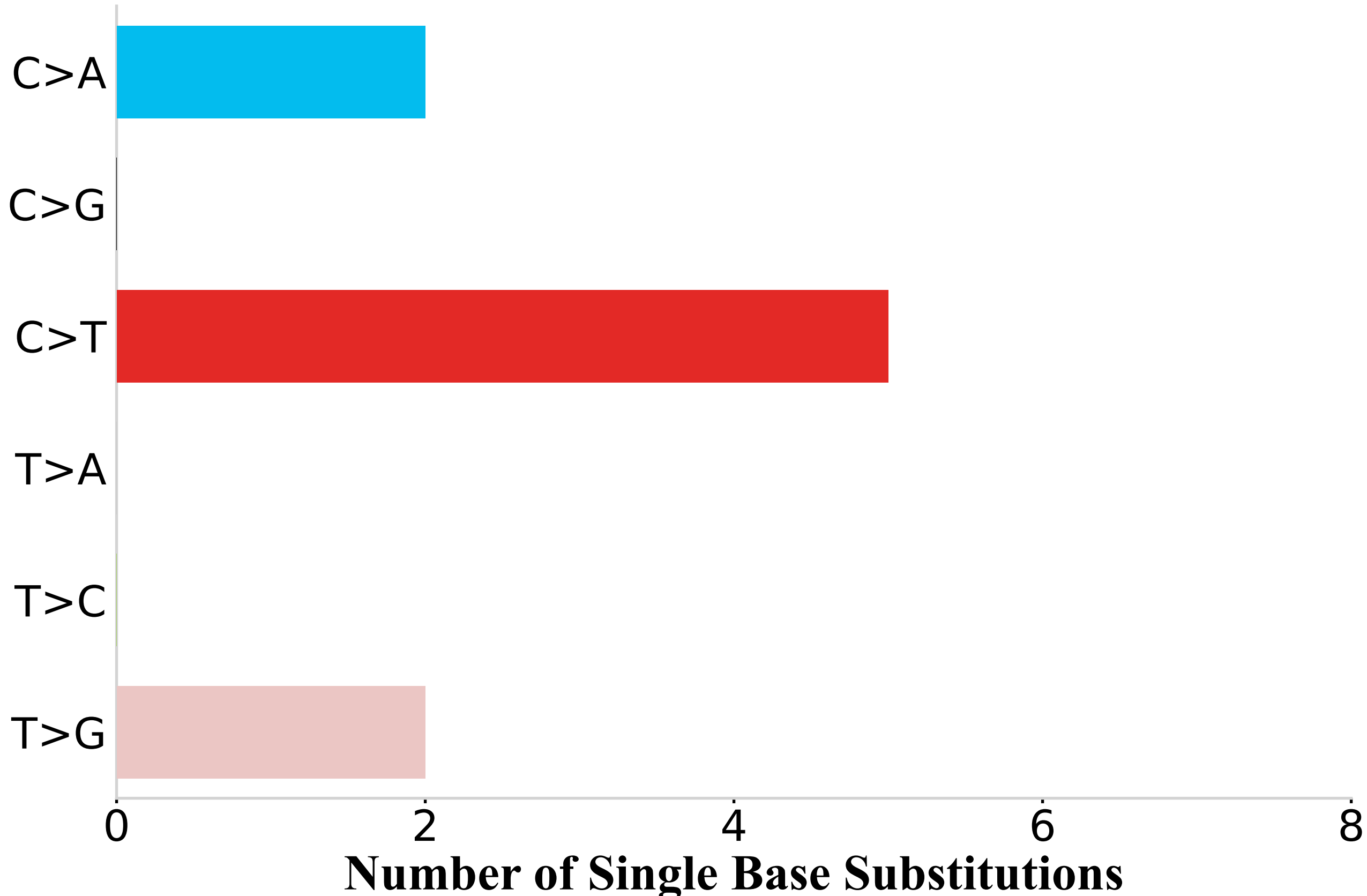
P-0044175-T01-IM6: 6 subs



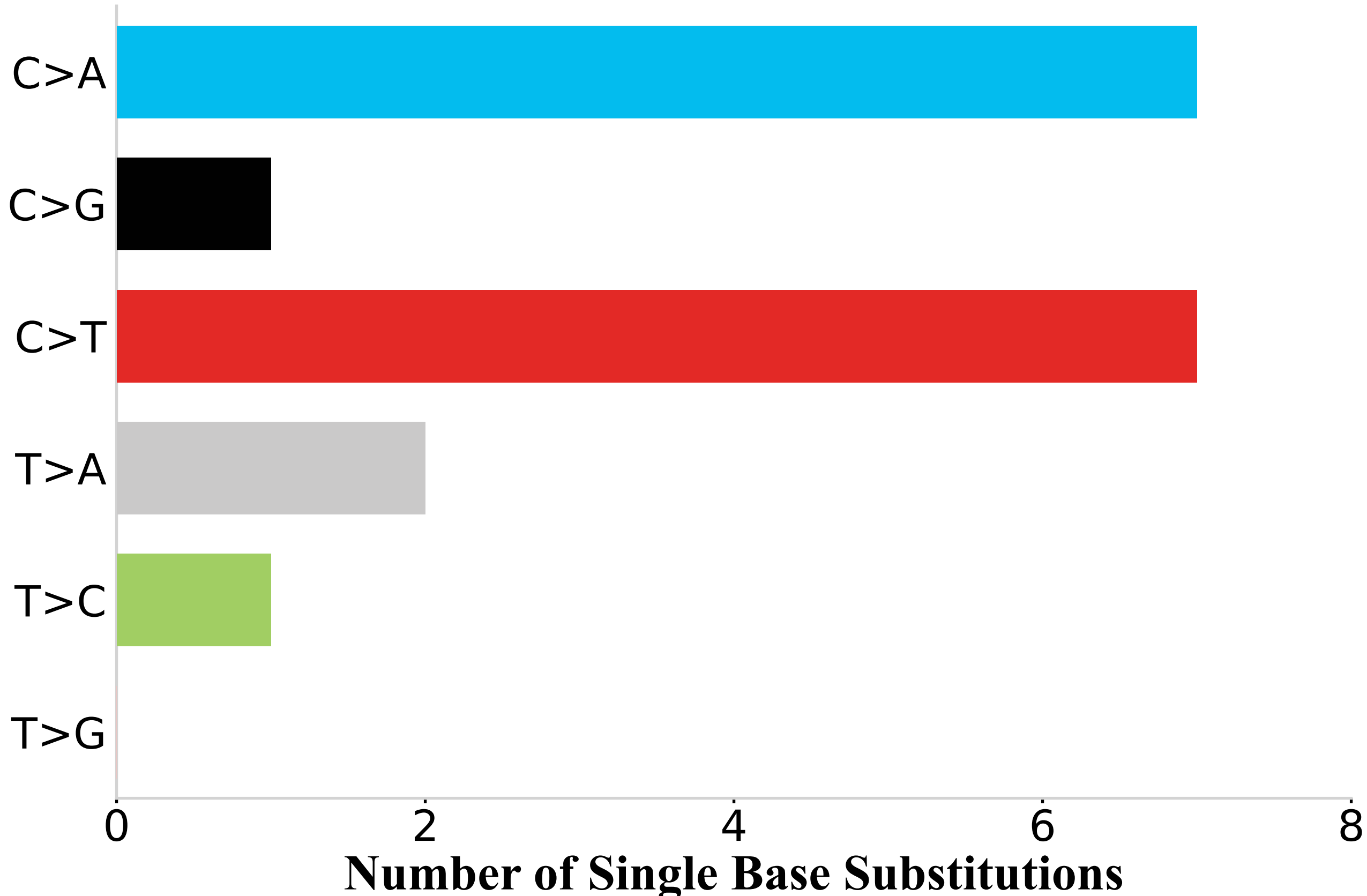
P-0044499-T01-IM6: 8 subs



P-0044510-T01-IM6: 9 subs



P-0044759-T01-IM6: 18 subs



P-0044966-T01-IM6: 2 subs

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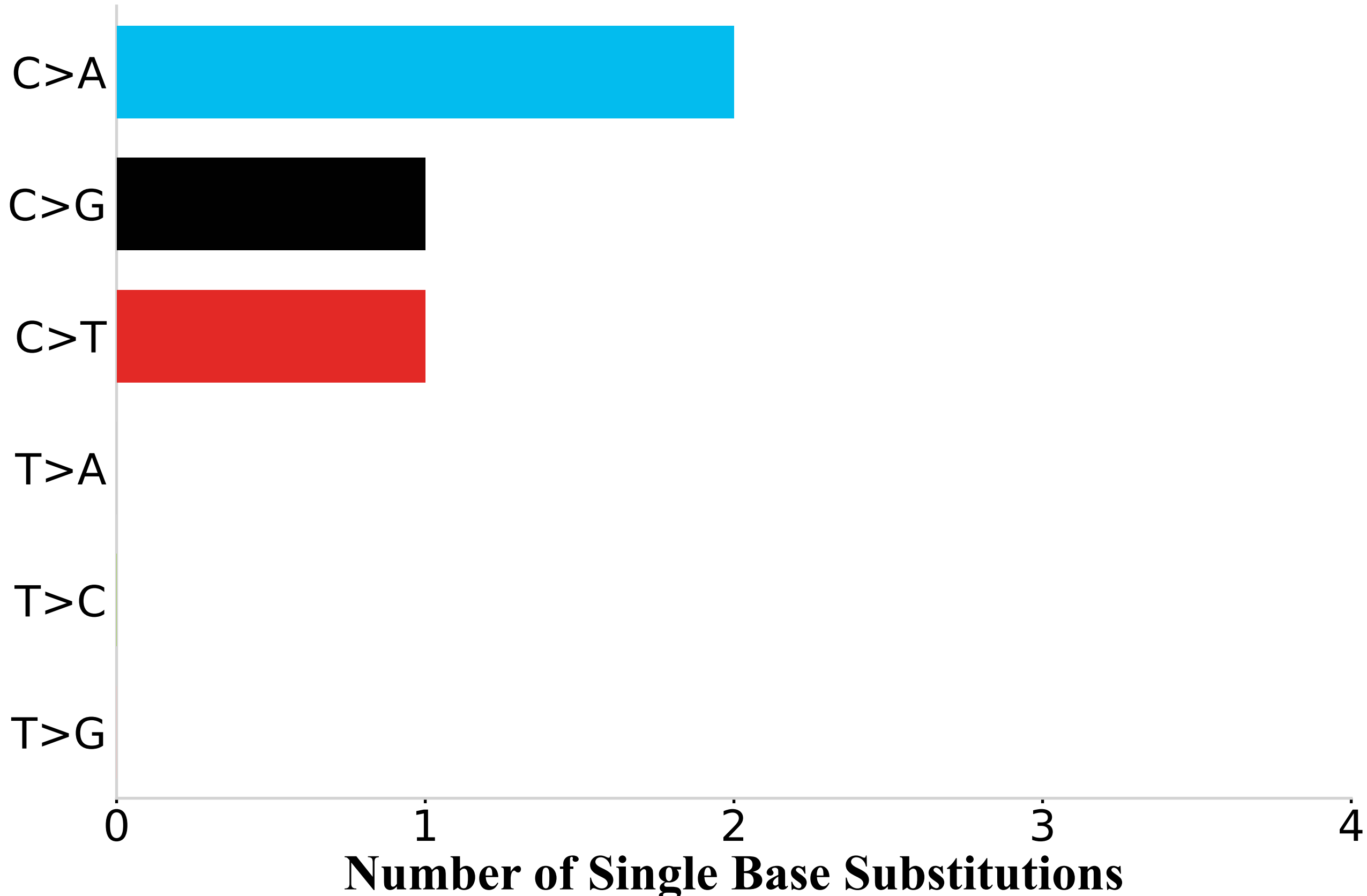
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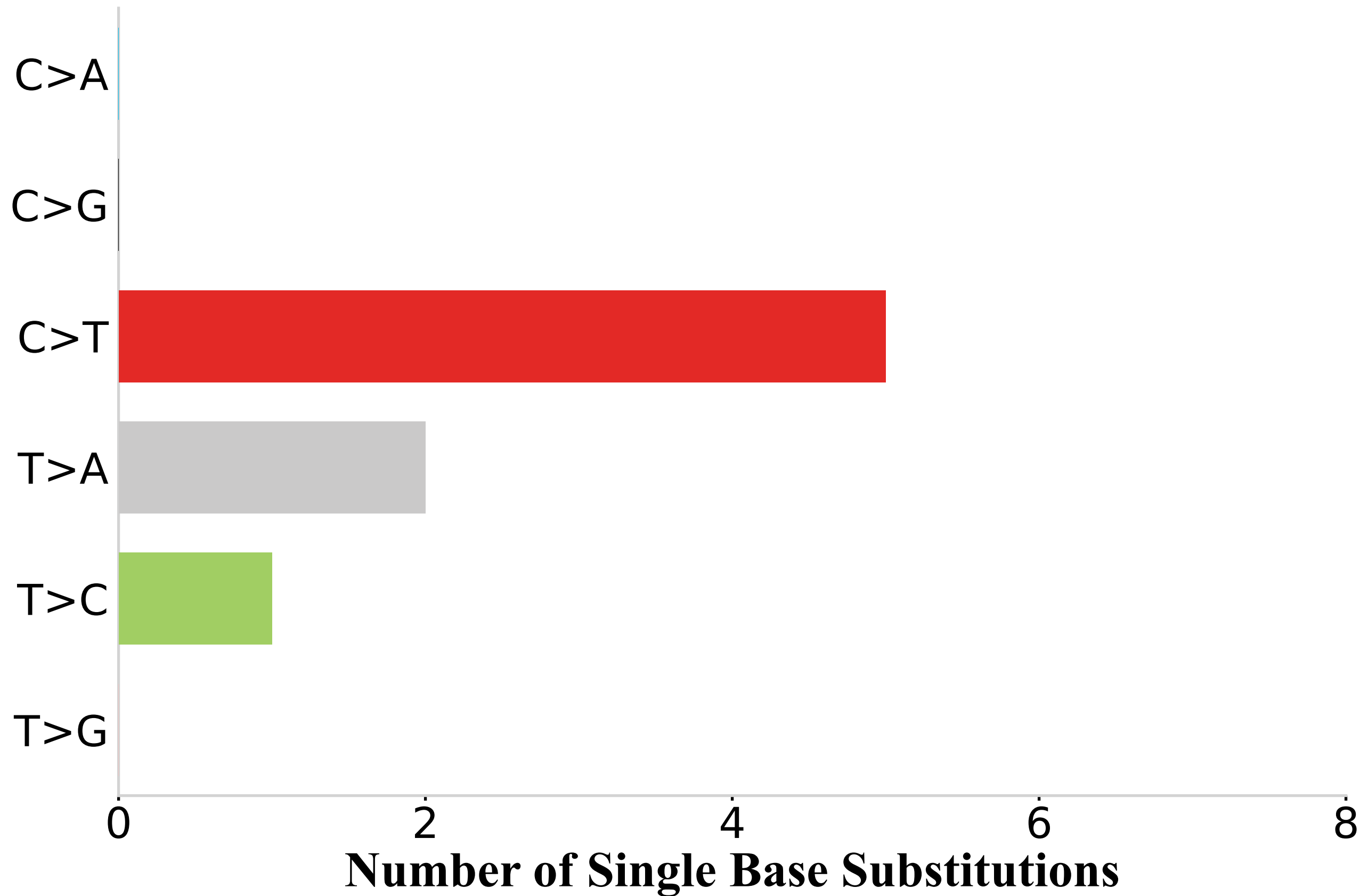
Number of Single Base Substitutions



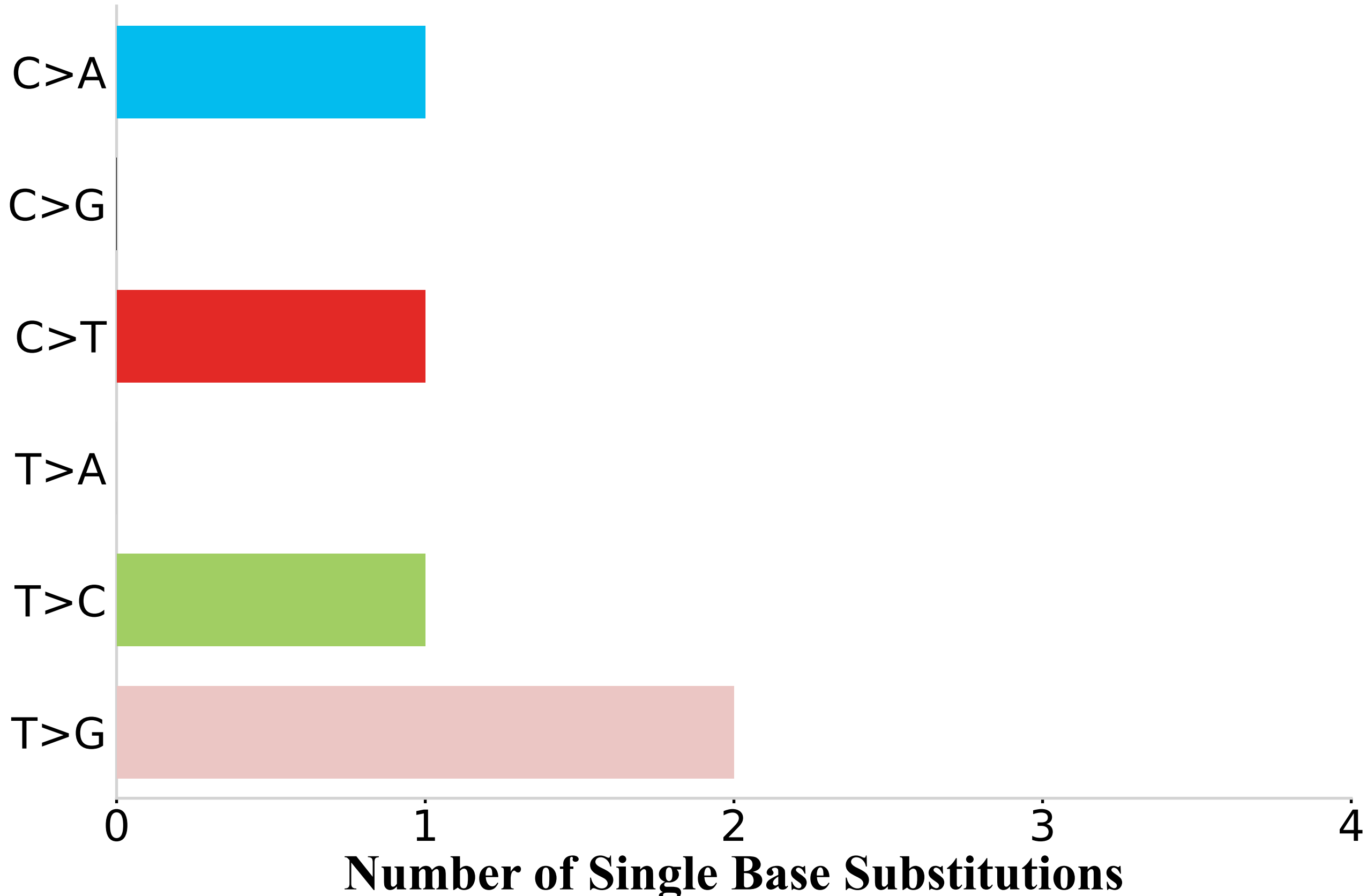
P-0045040-T01-IM6: 4 subs



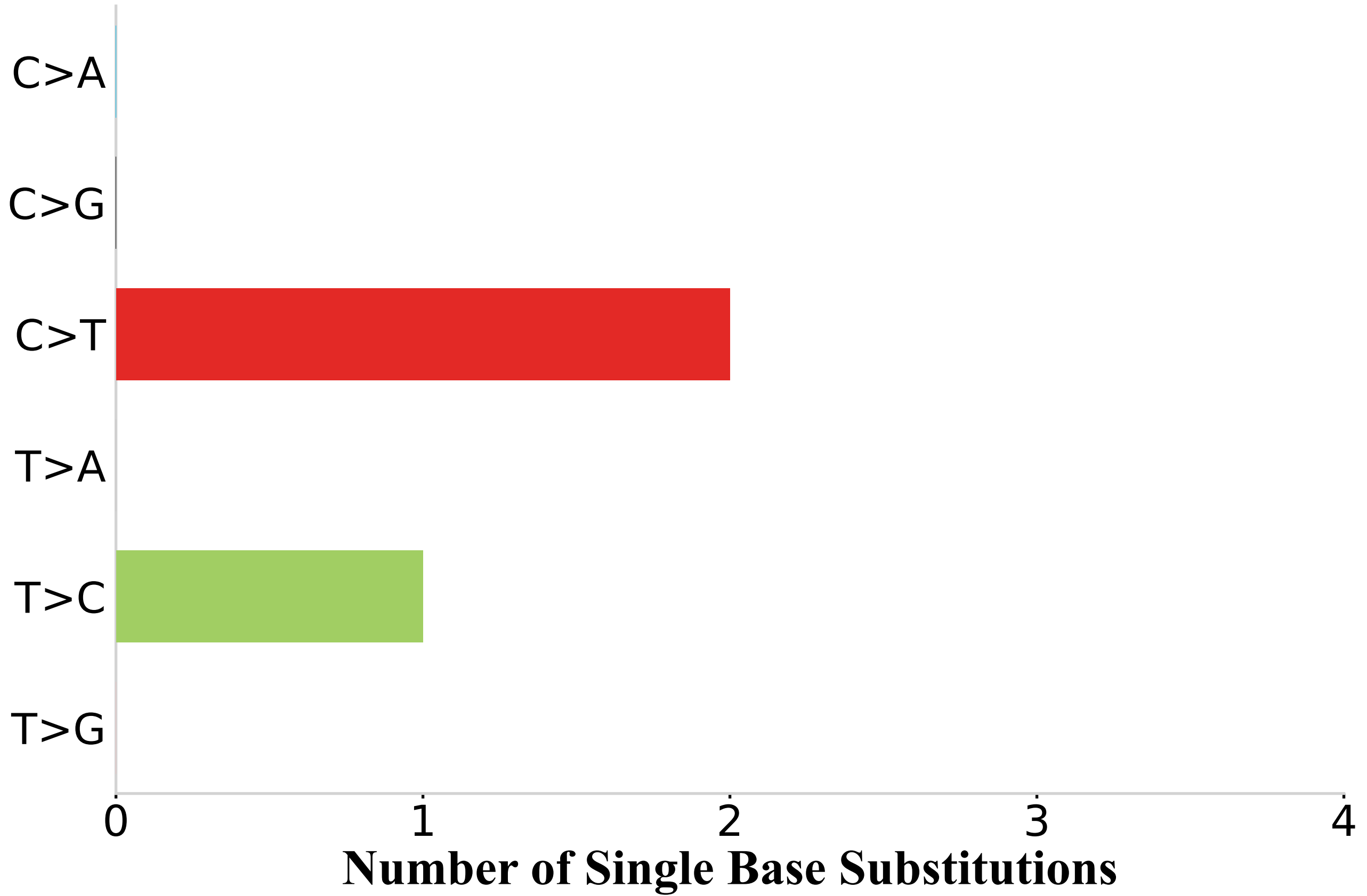
P-0045101-T01-IM6: 8 subs



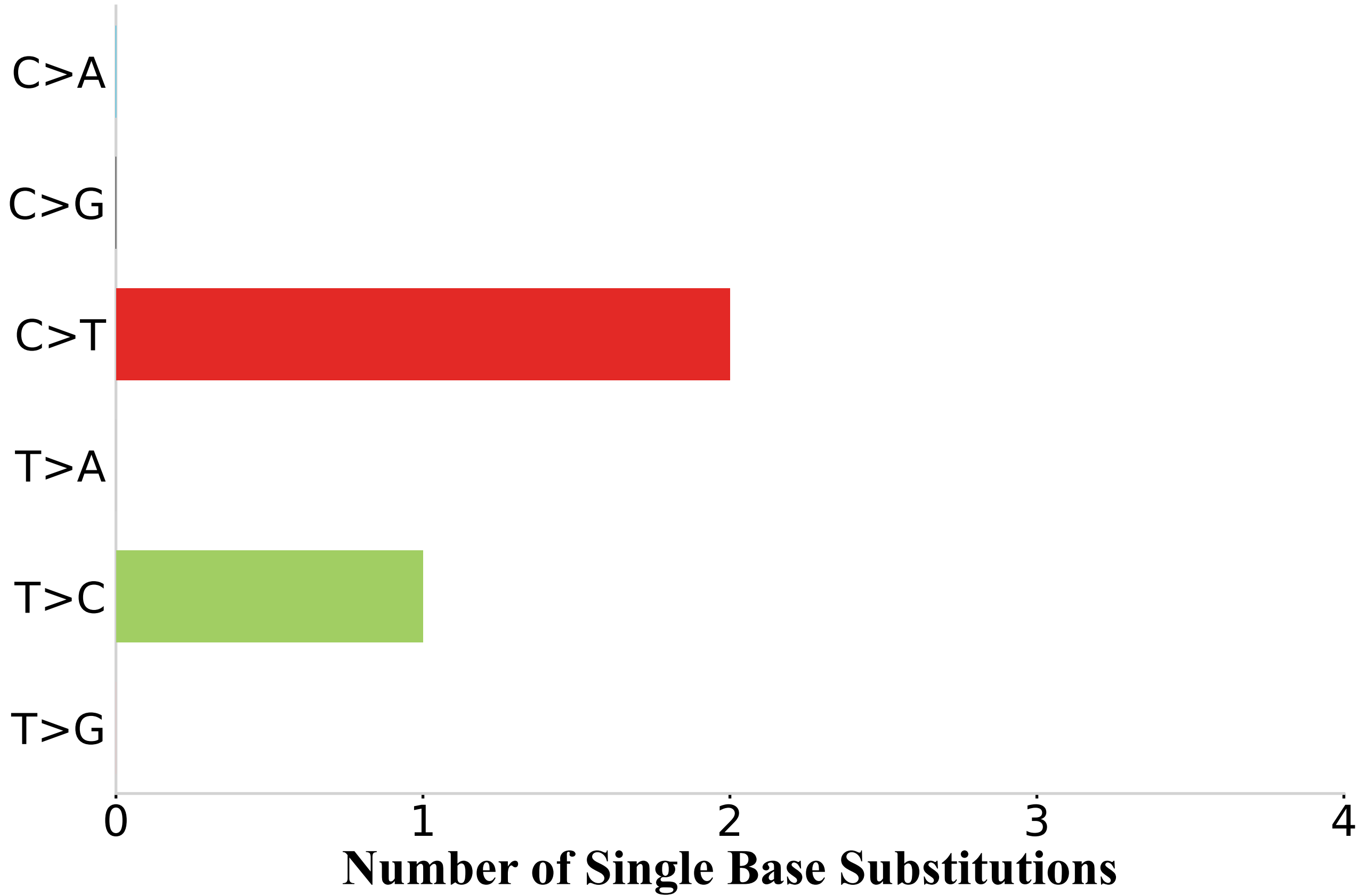
P-0045105-T01-IM6: 5 subs



P-0045288-T01-IM6: 3 subs



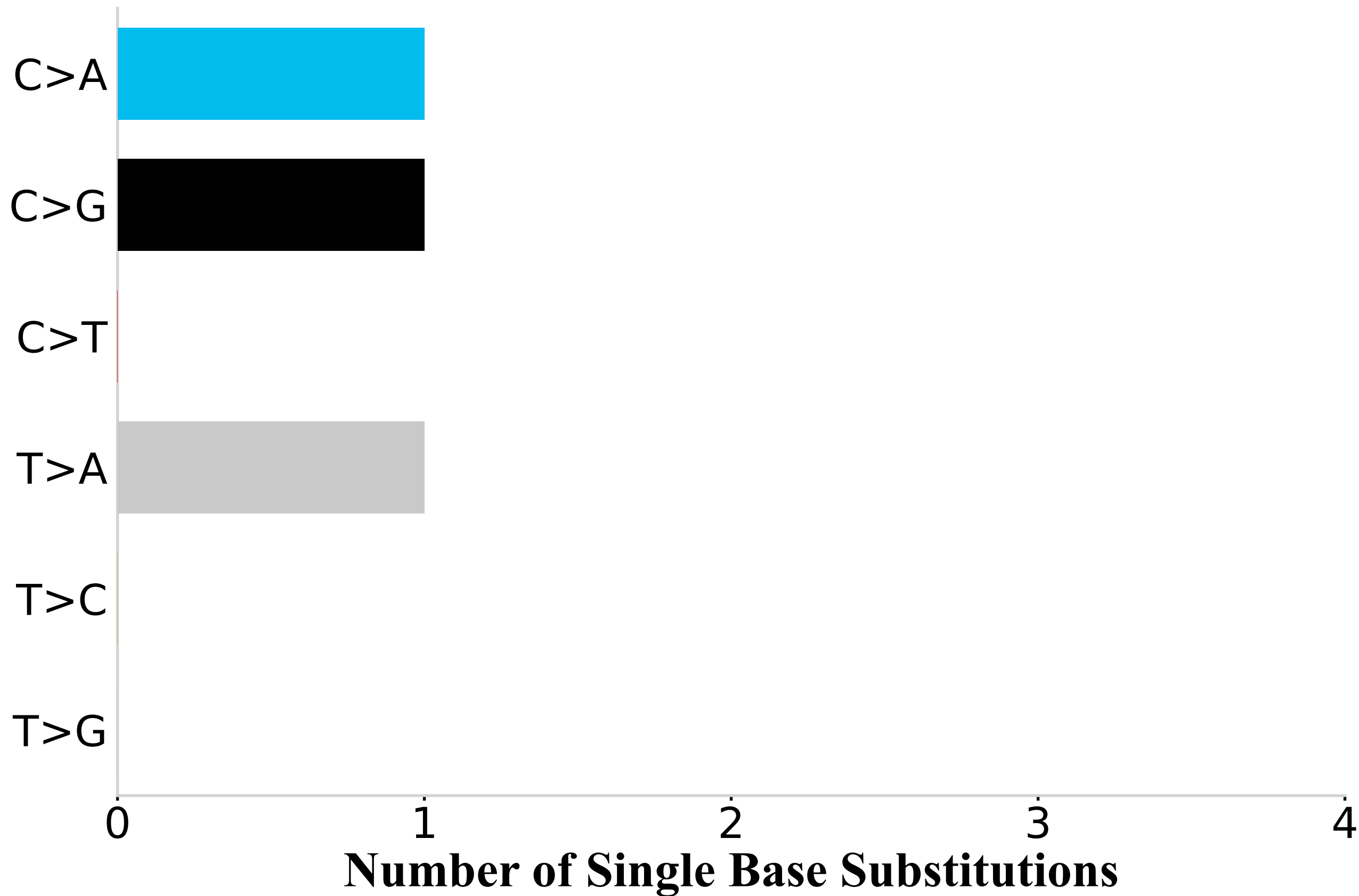
P-0045508-T01-IM6: 3 subs



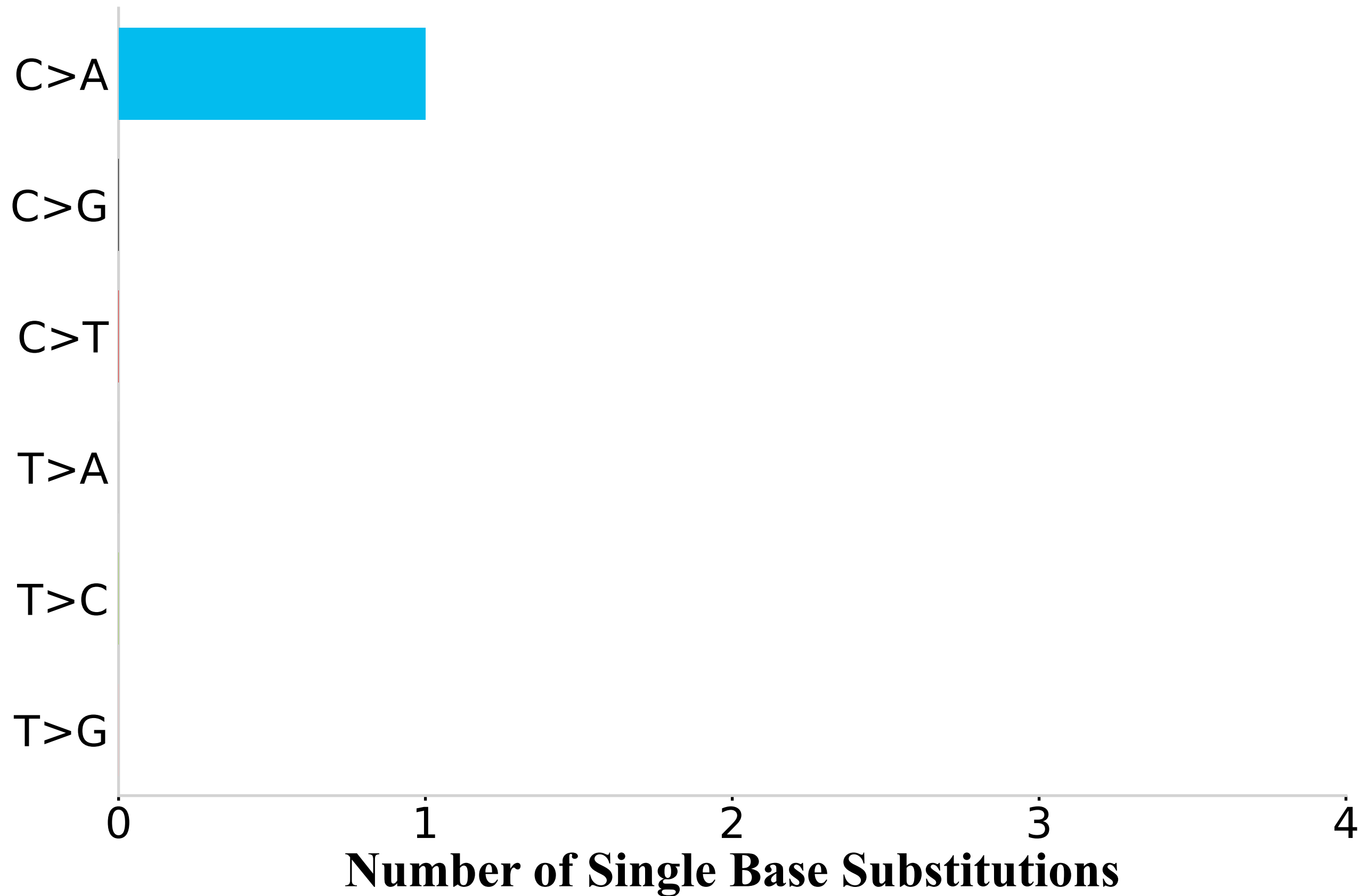
P-0045583-T01-IM6: 1 subs



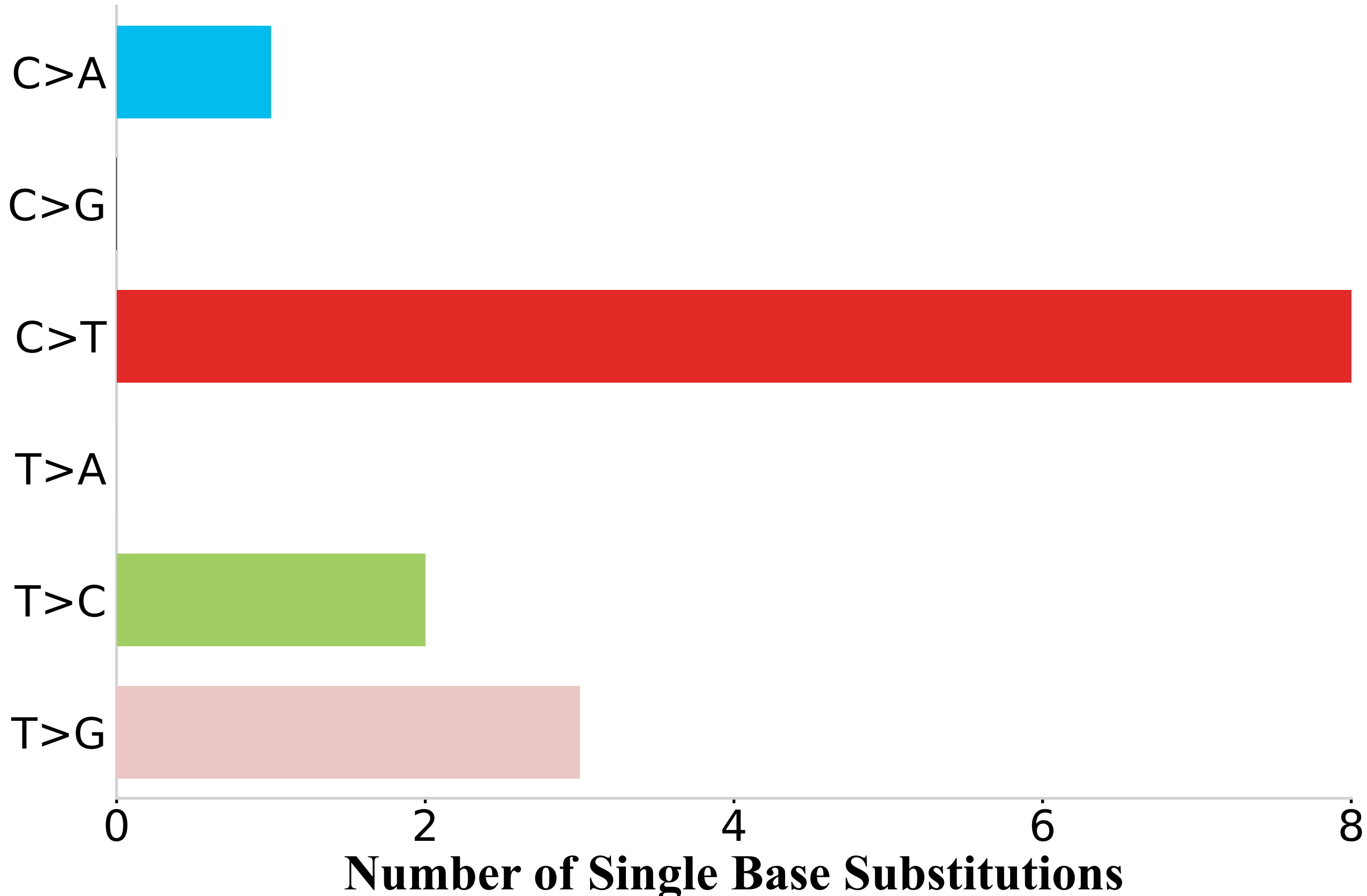
P-0045731-T01-IM6: 3 subs



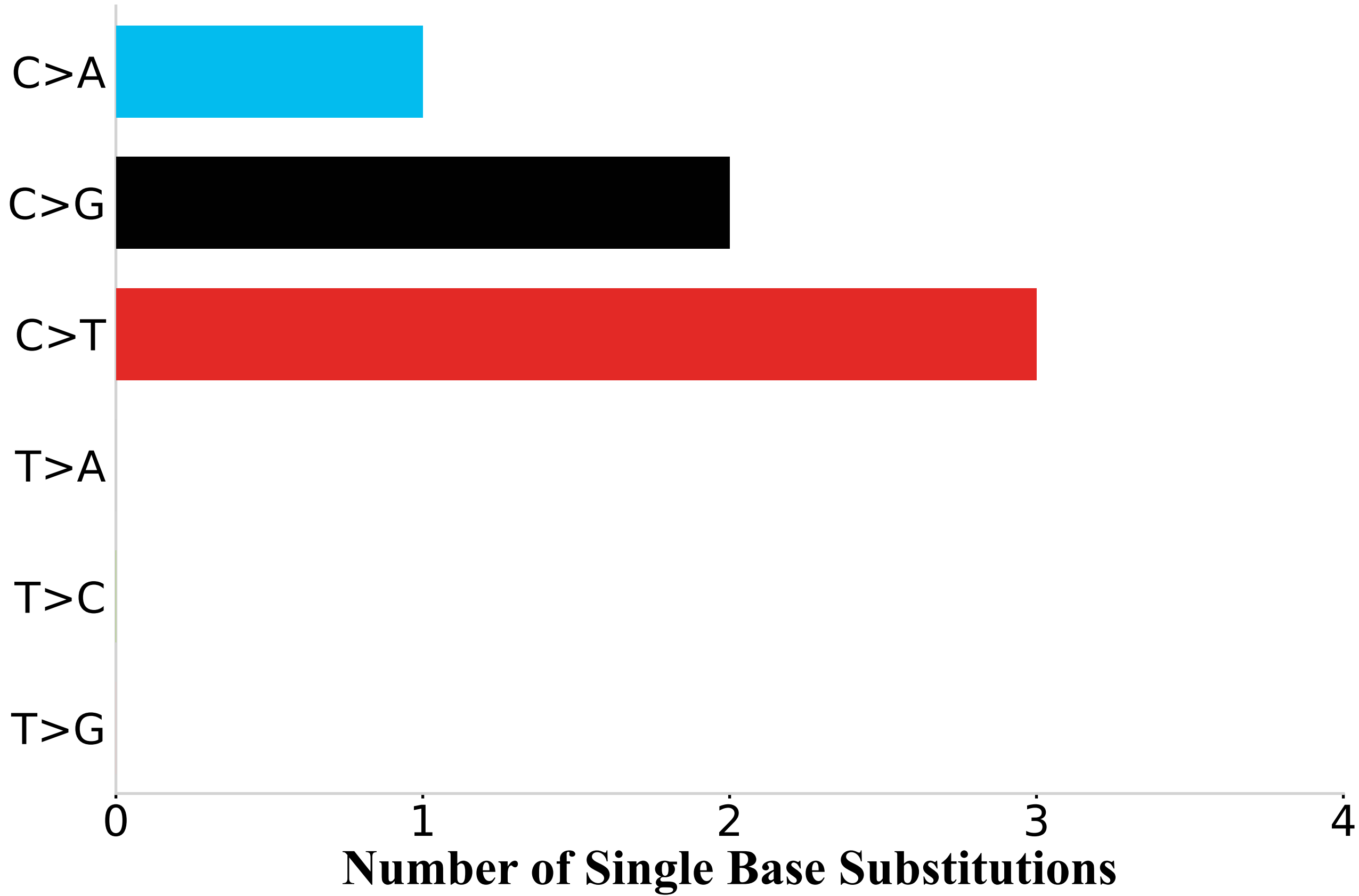
P-0045949-T01-IM6: 1 subs



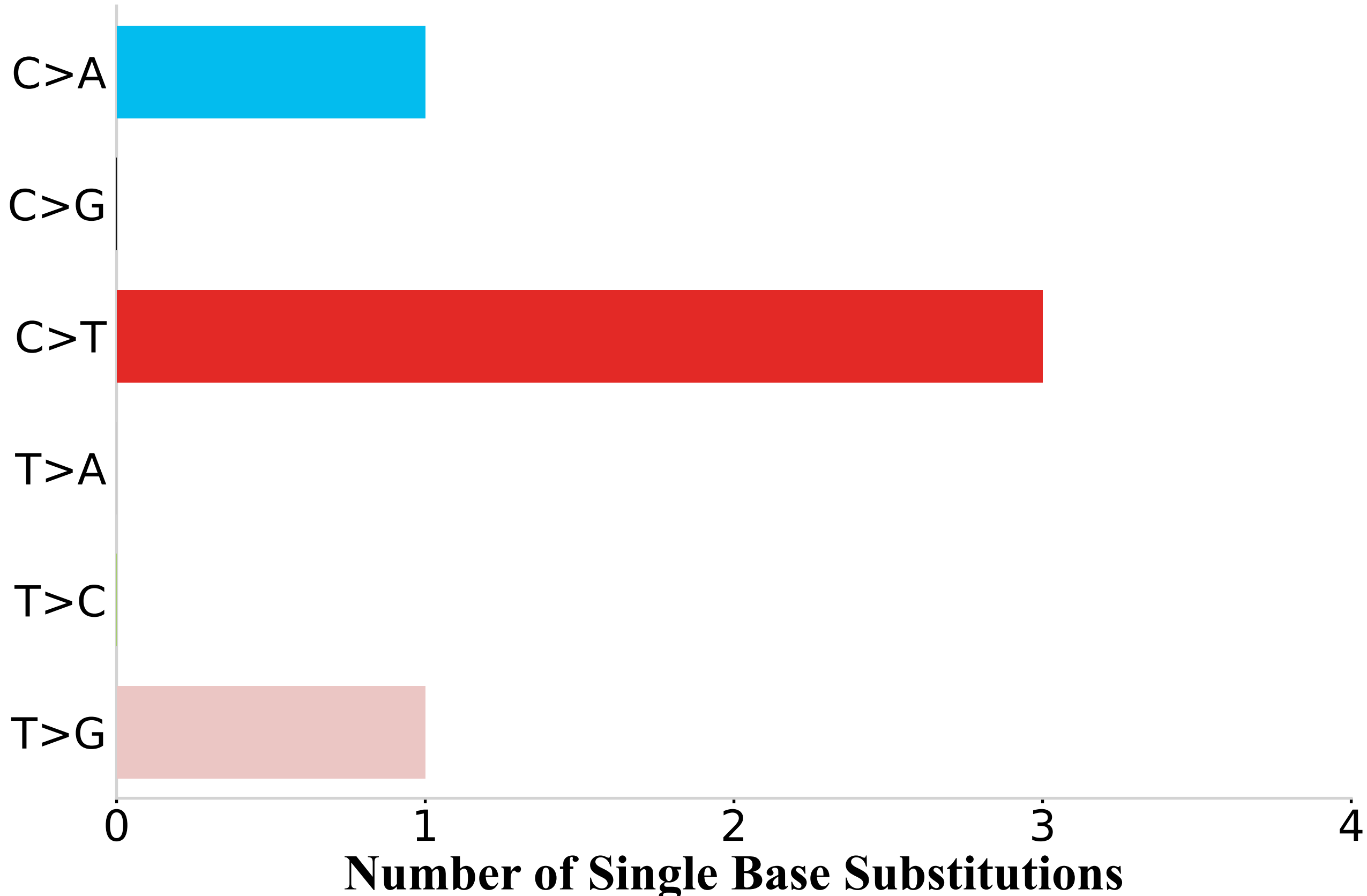
P-0045954-T01-IM6: 14 subs



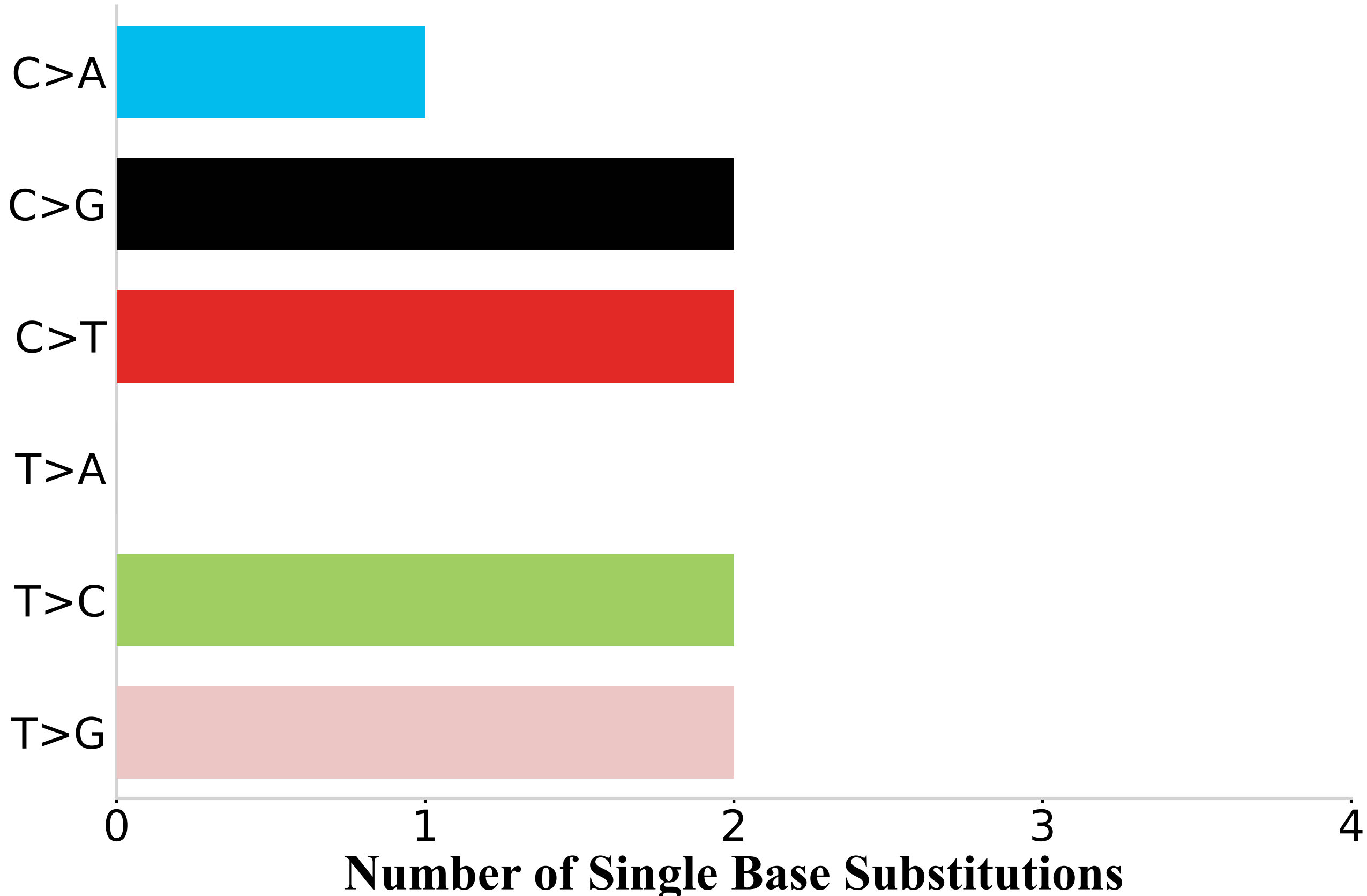
P-0046009-T01-IM6: 6 subs



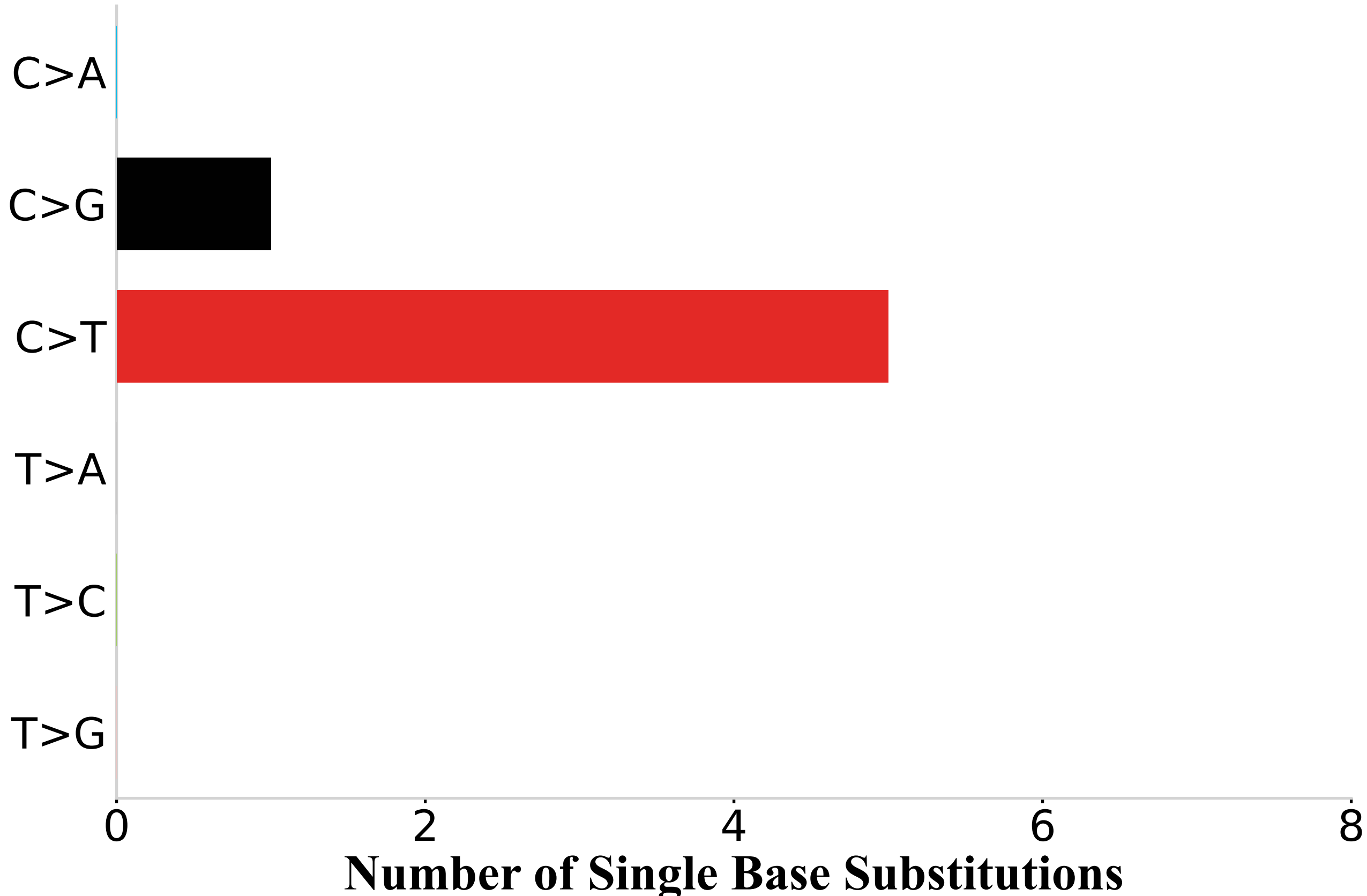
P-0046063-T01-IM6: 5 subs



P-0046195-T01-IM6: 9 subs



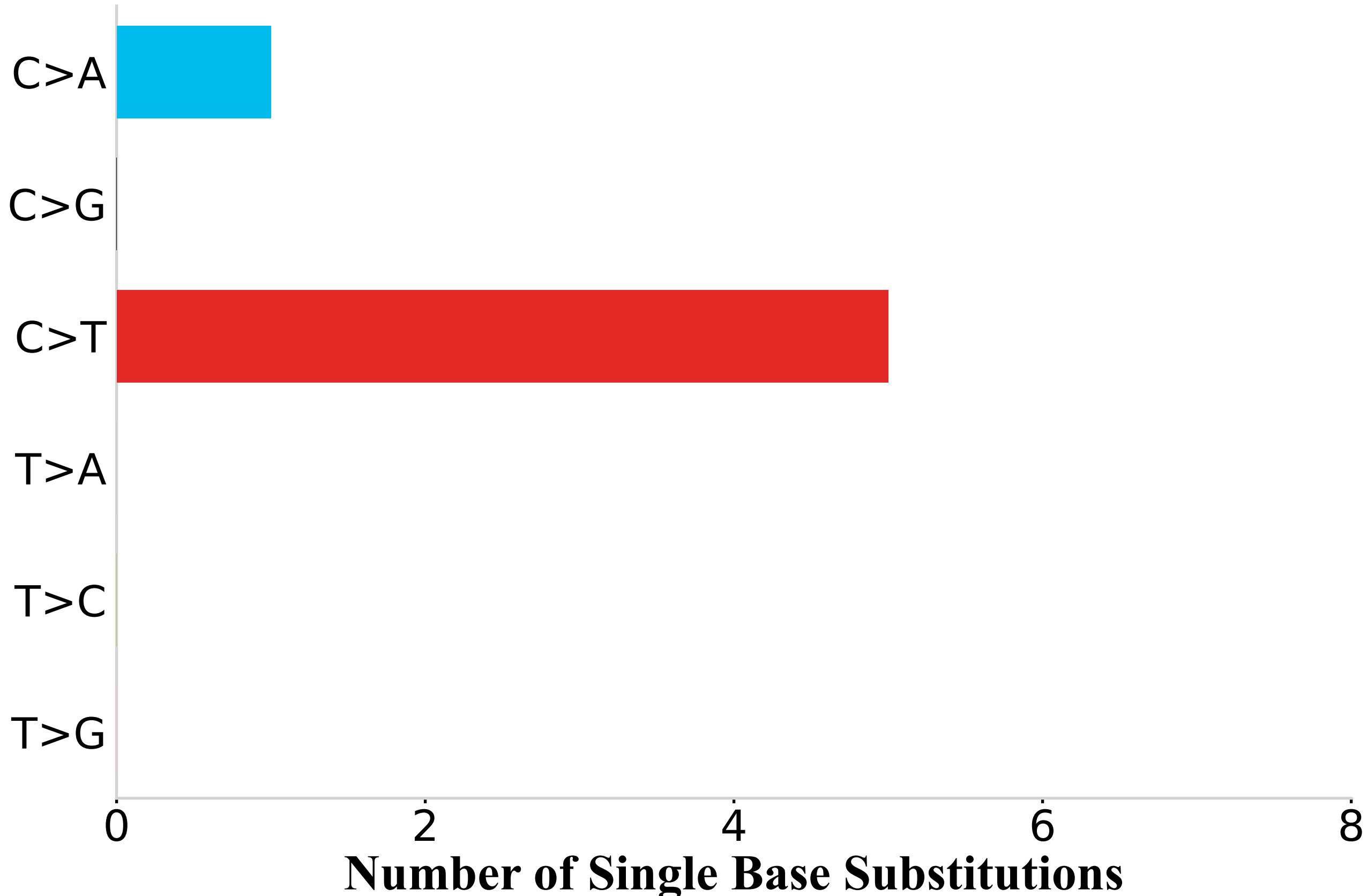
P-0046201-T01-IM6: 6 subs



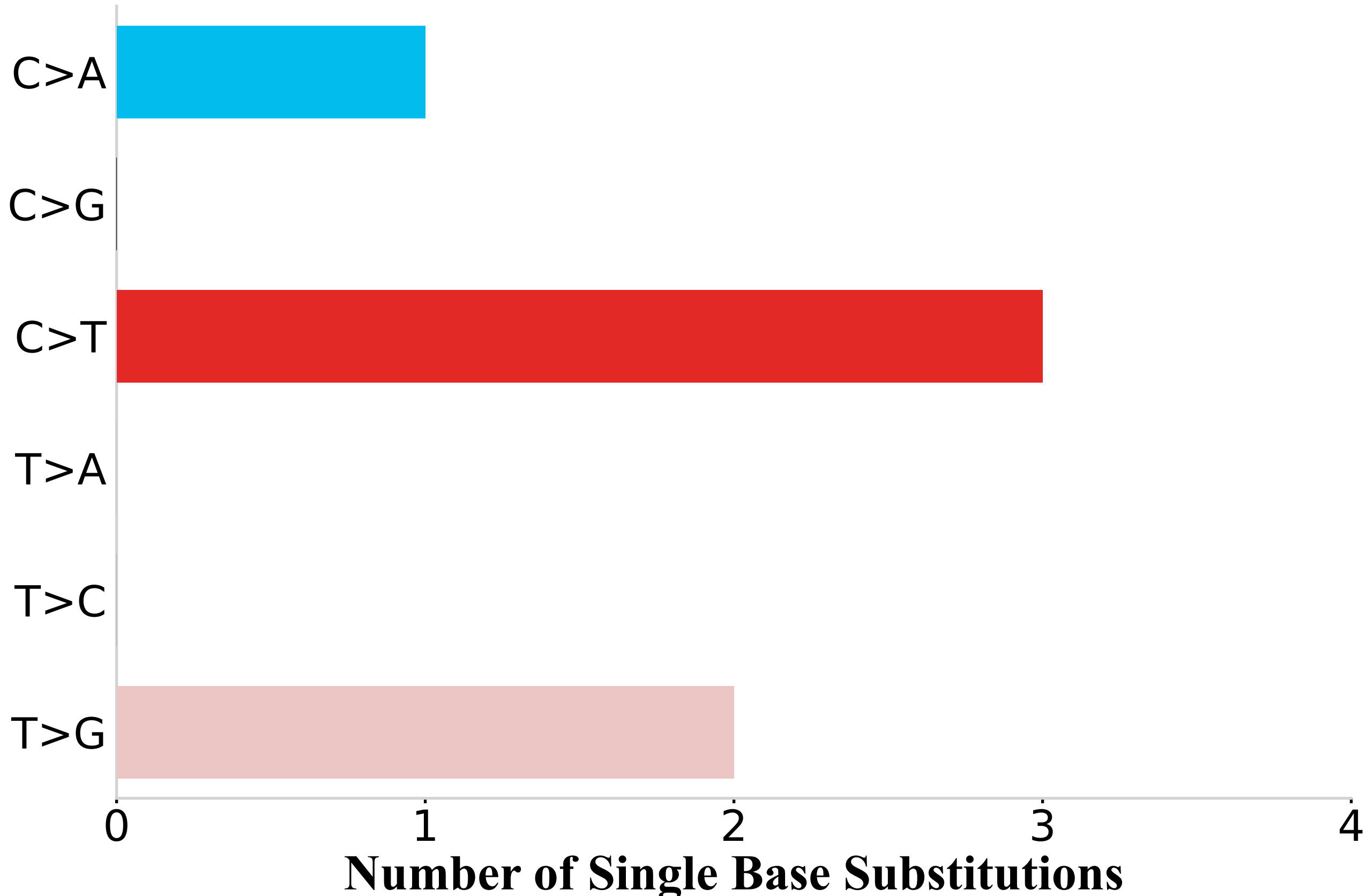
P-0046260-T01-IM6: 1 subs



P-0046275-T01-IM6: 6 subs



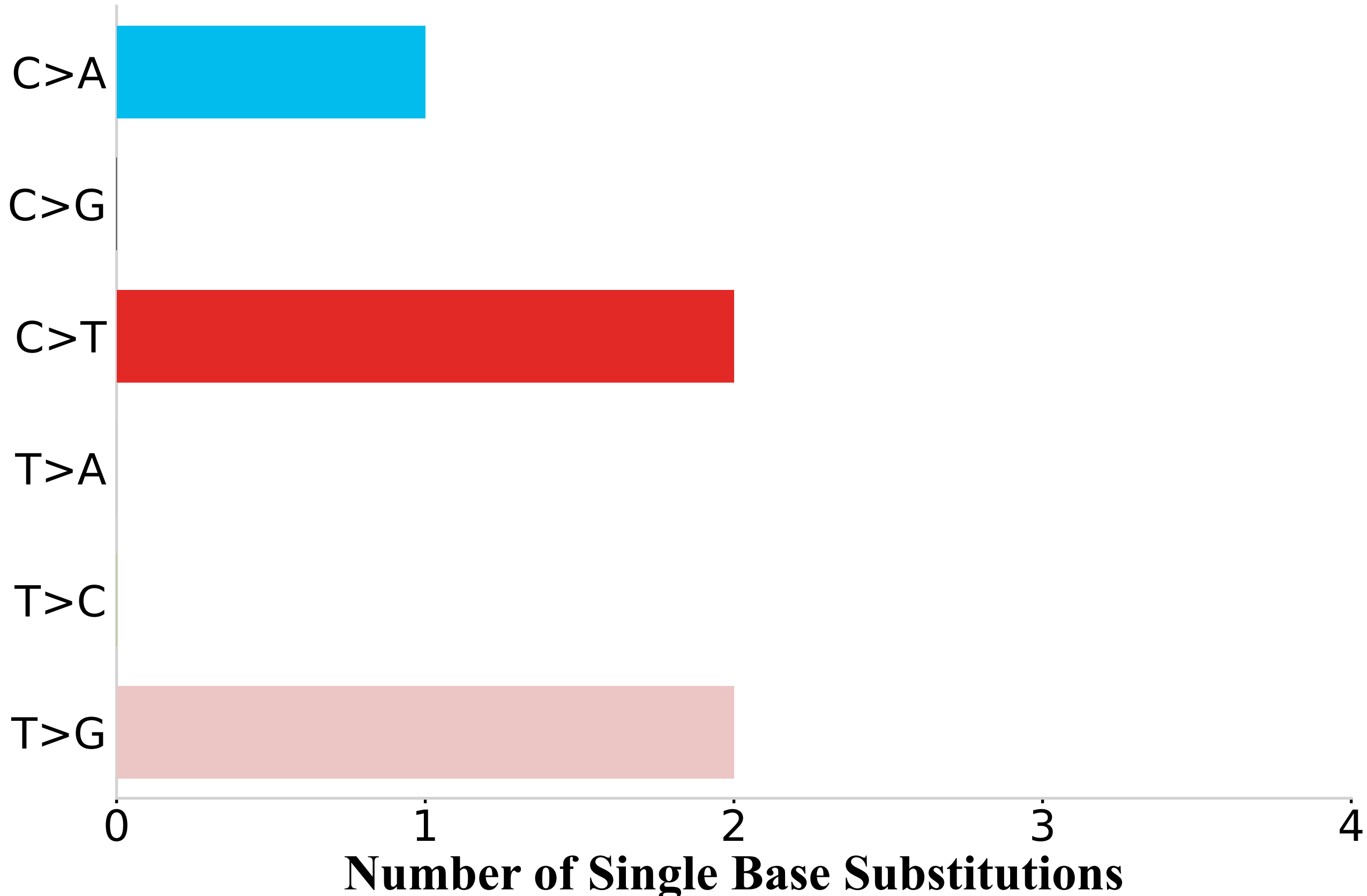
P-0046464-T01-IM6: 6 subs



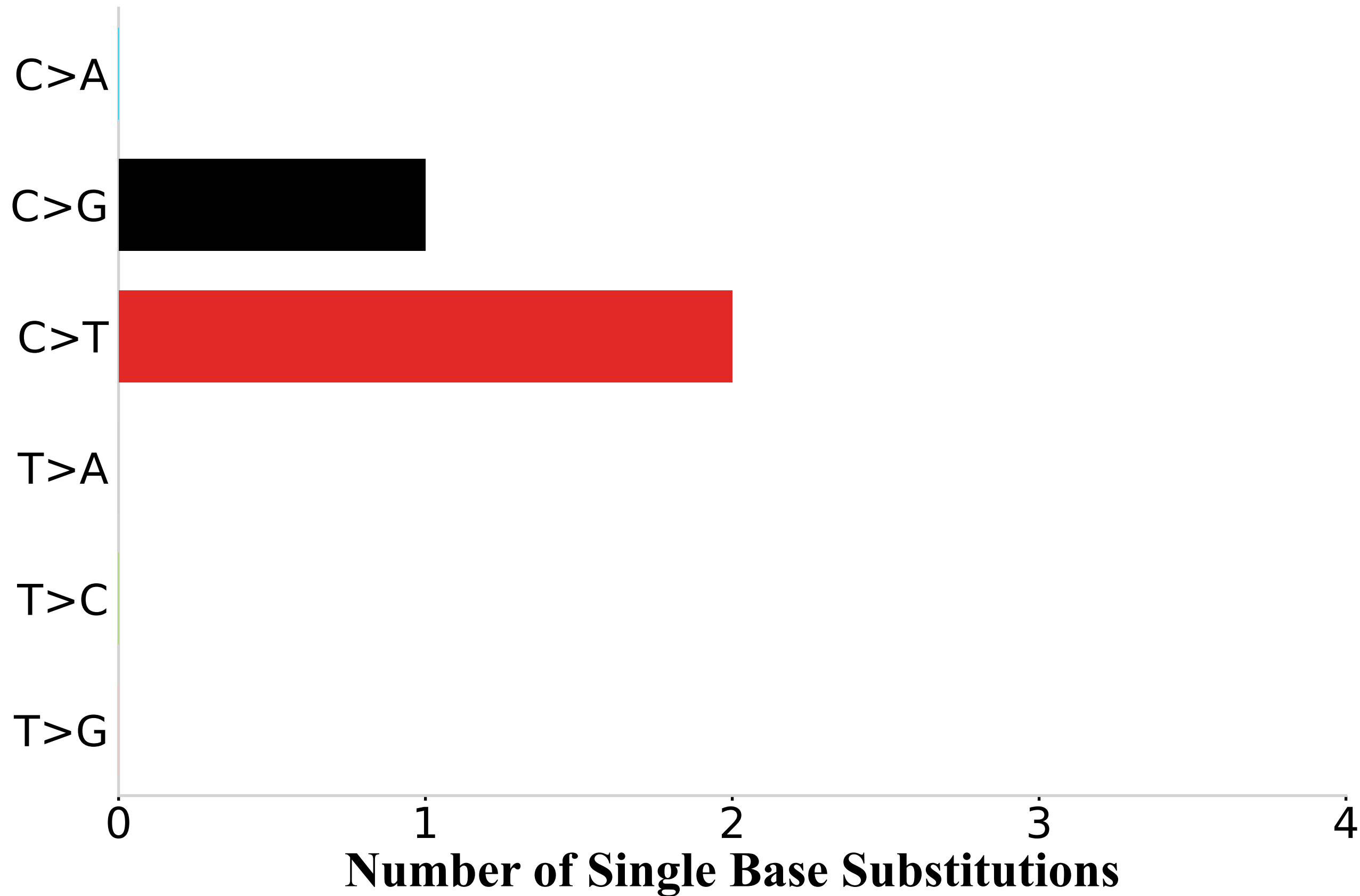
P-0046535-T01-IM6: 2 subs



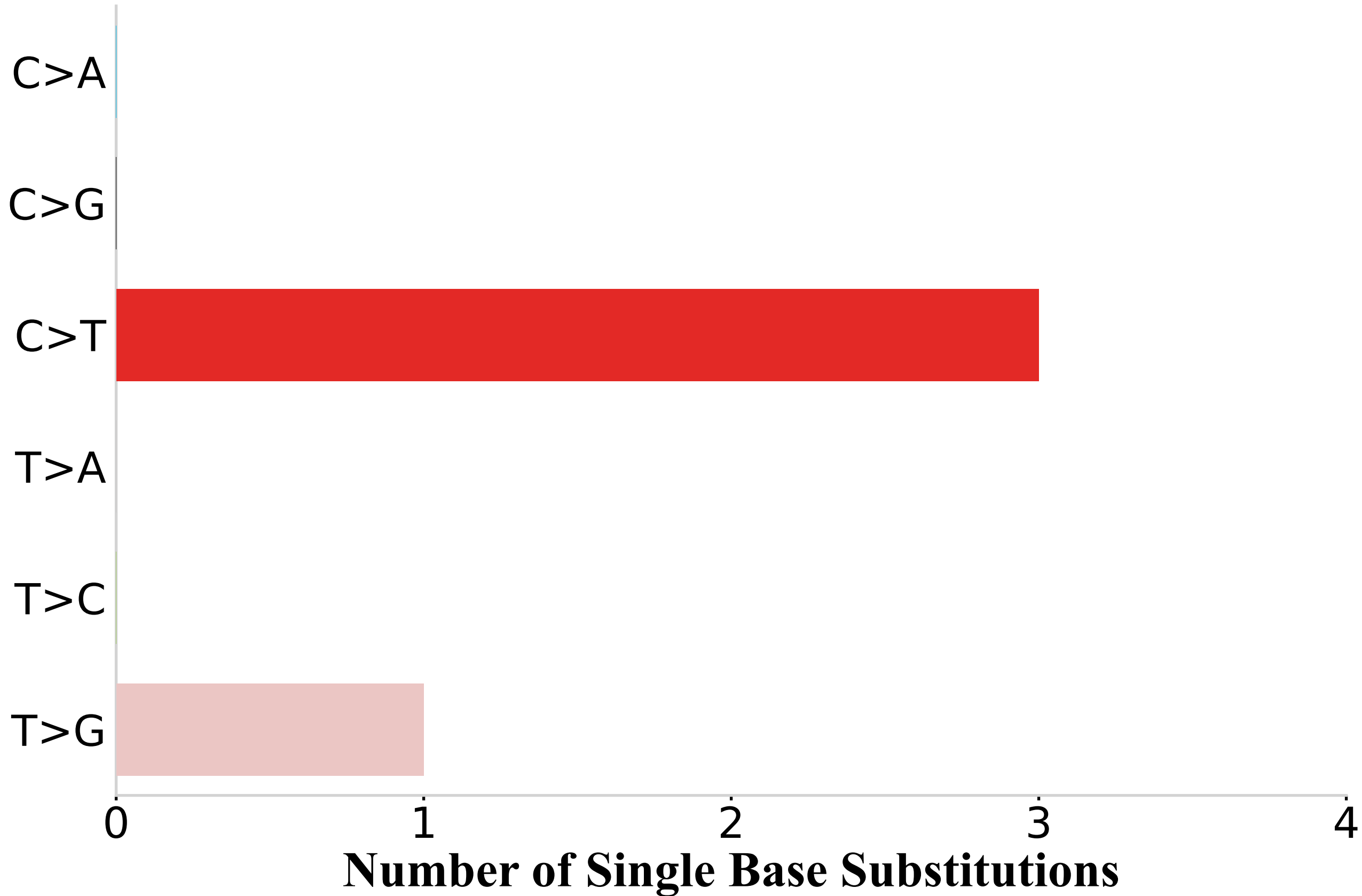
P-0046595-T01-IM6: 5 subs



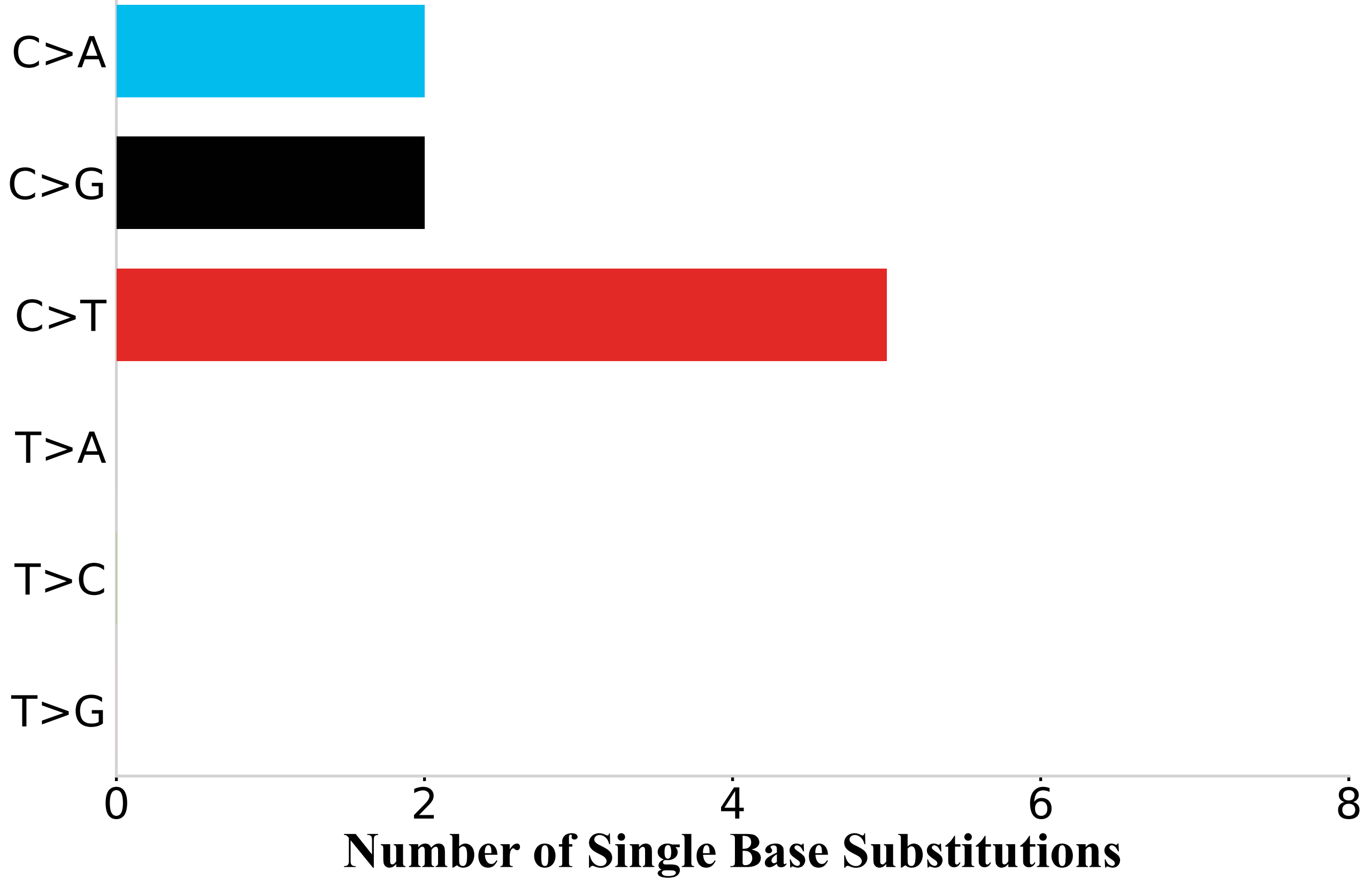
P-0046610-T01-IM6: 3 subs



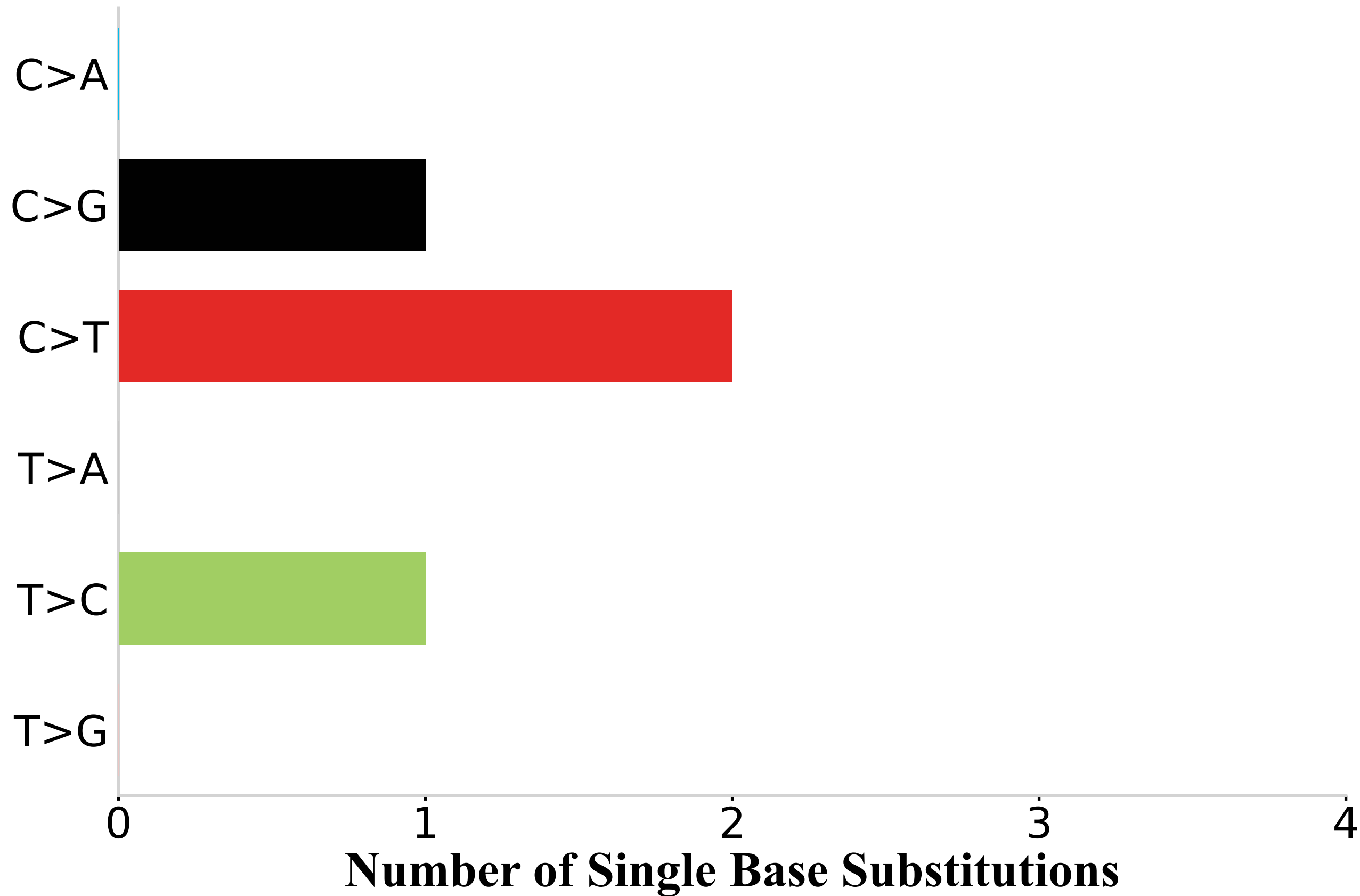
P-0046620-T01-IM6: 4 subs



P-0046625-T01-IM6: 9 subs



P-0046661-T01-IM6: 4 subs



P-0046796-T01-IM6: 0 subs

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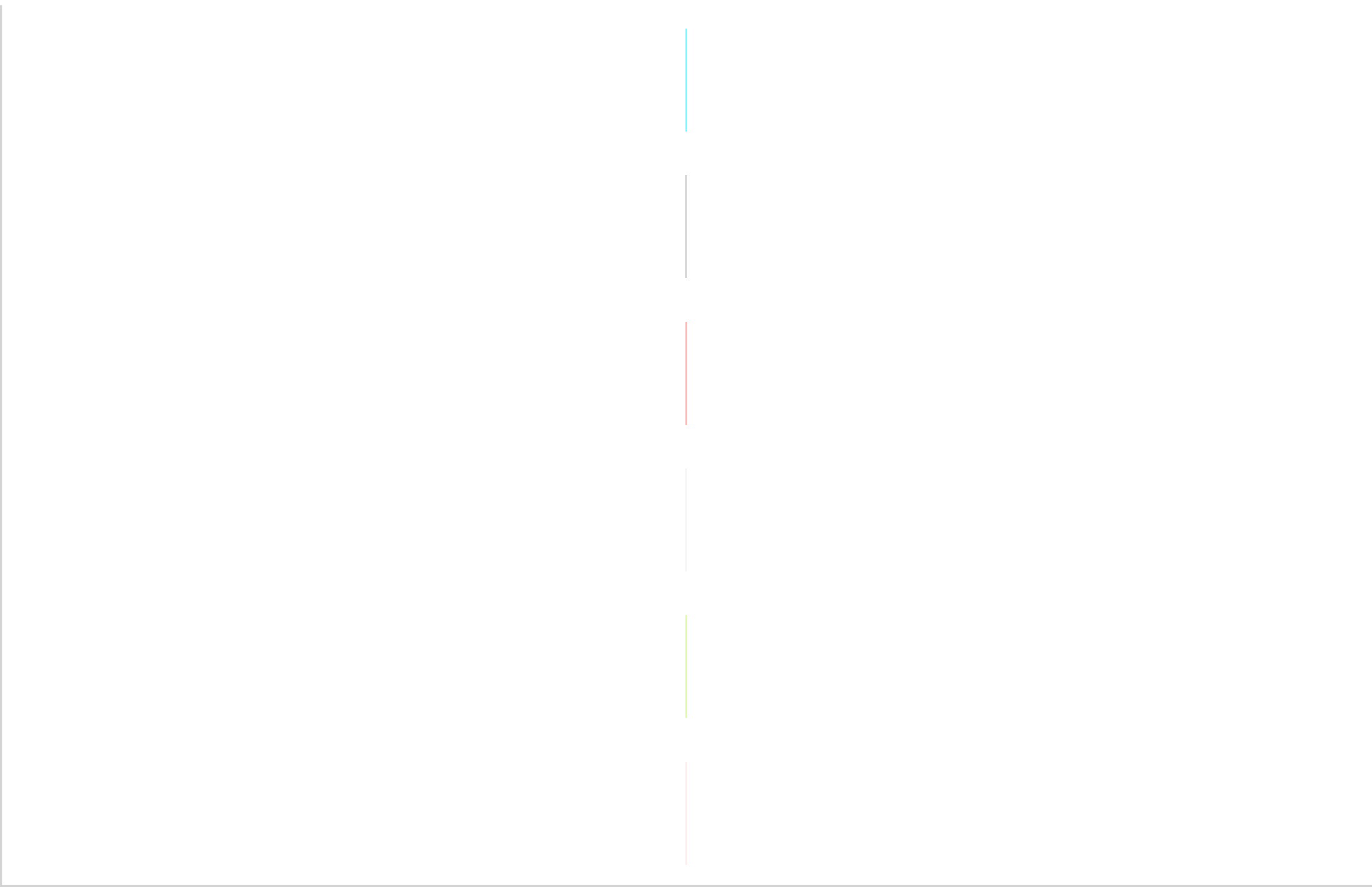
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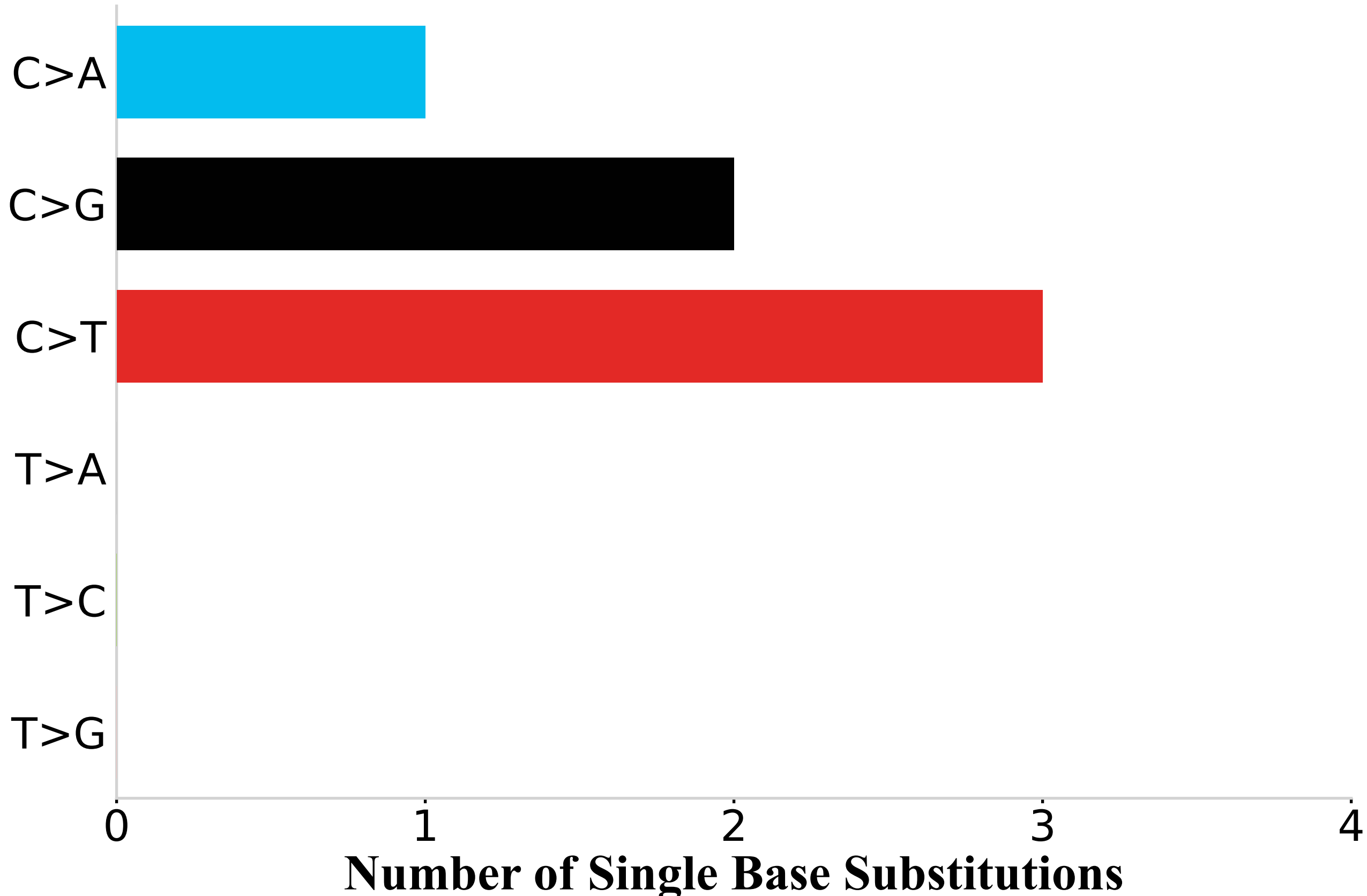
T>G

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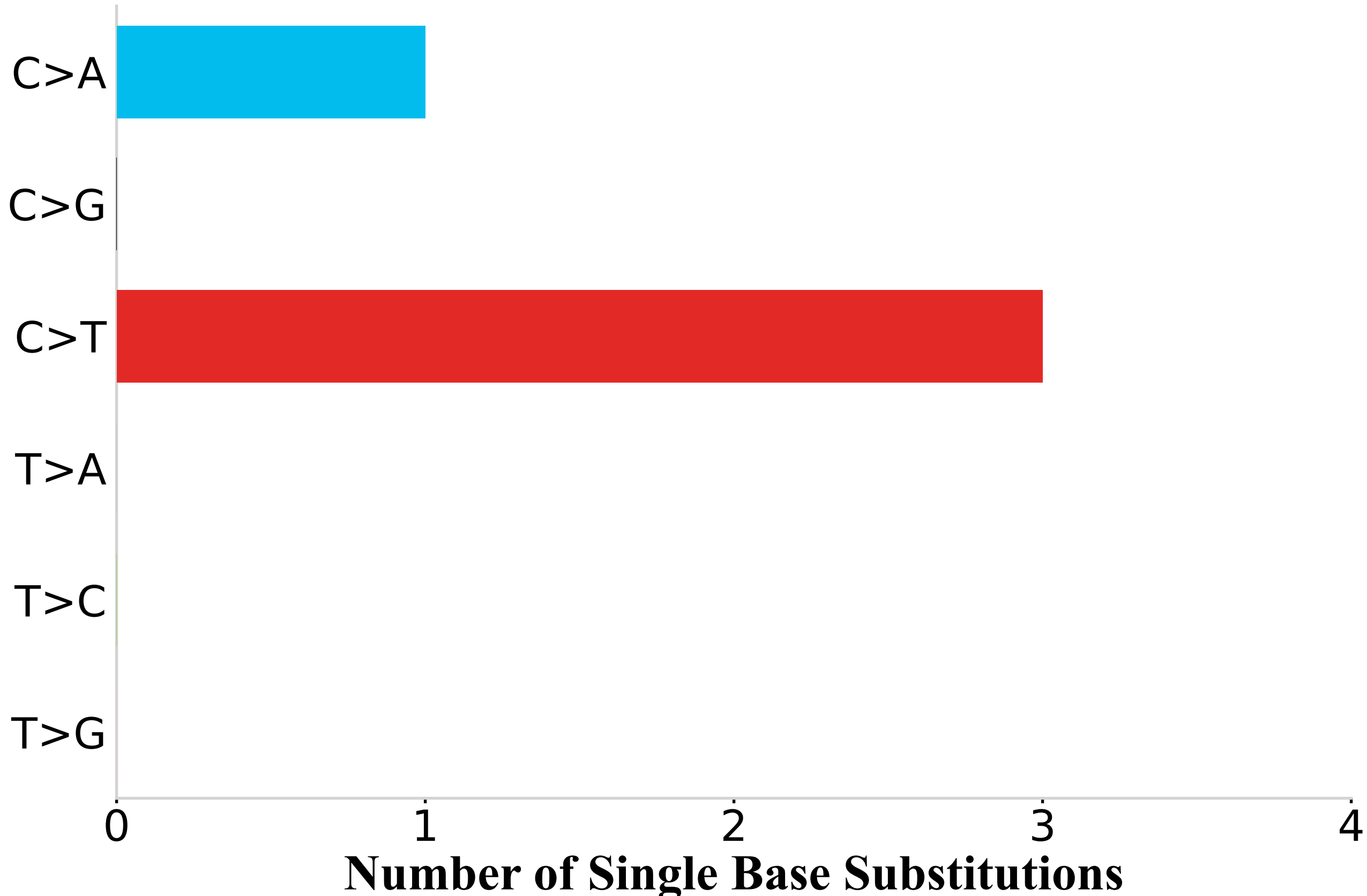
Number of Single Base Substitutions



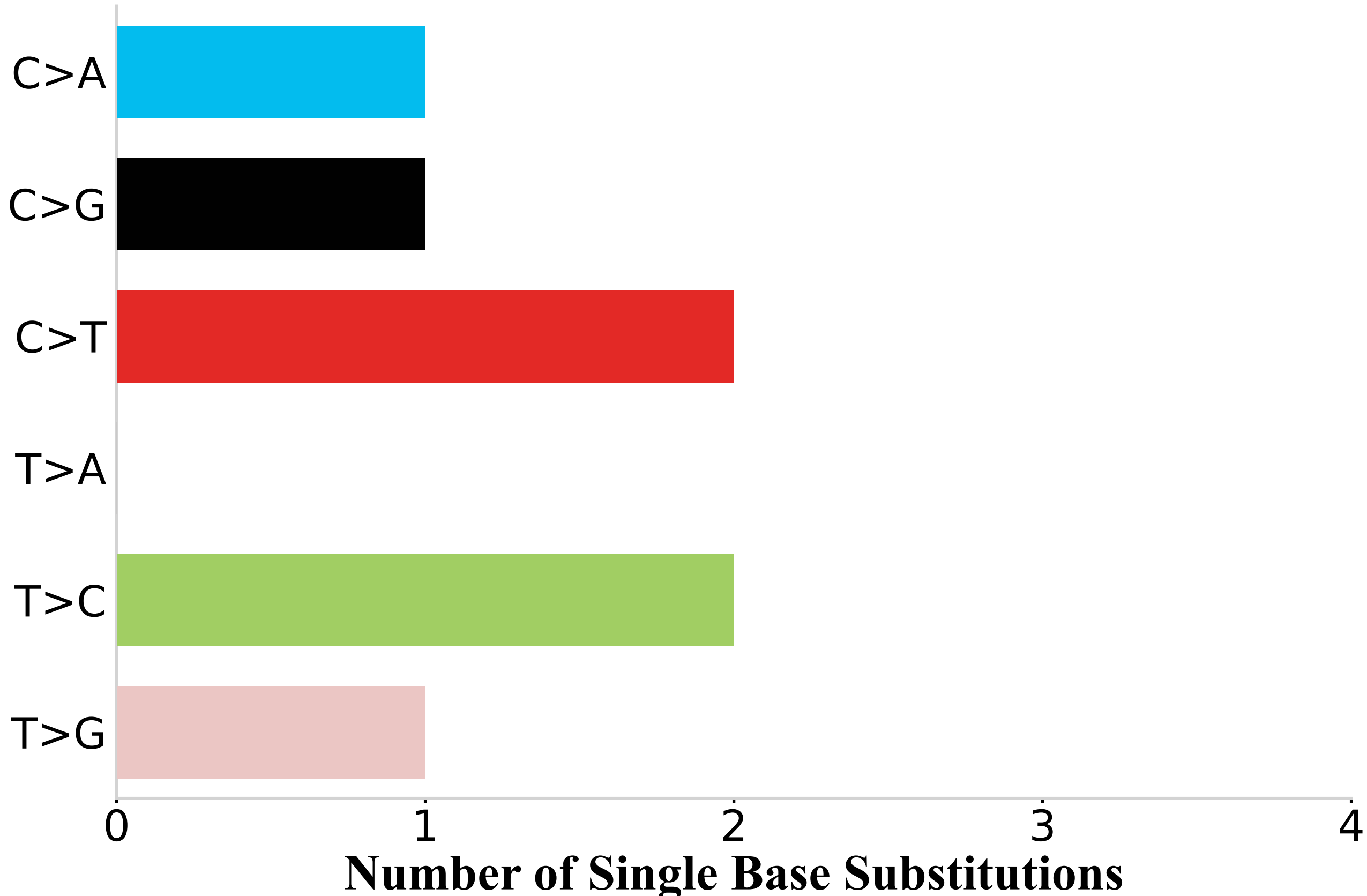
P-0046836-T01-IM6: 6 subs



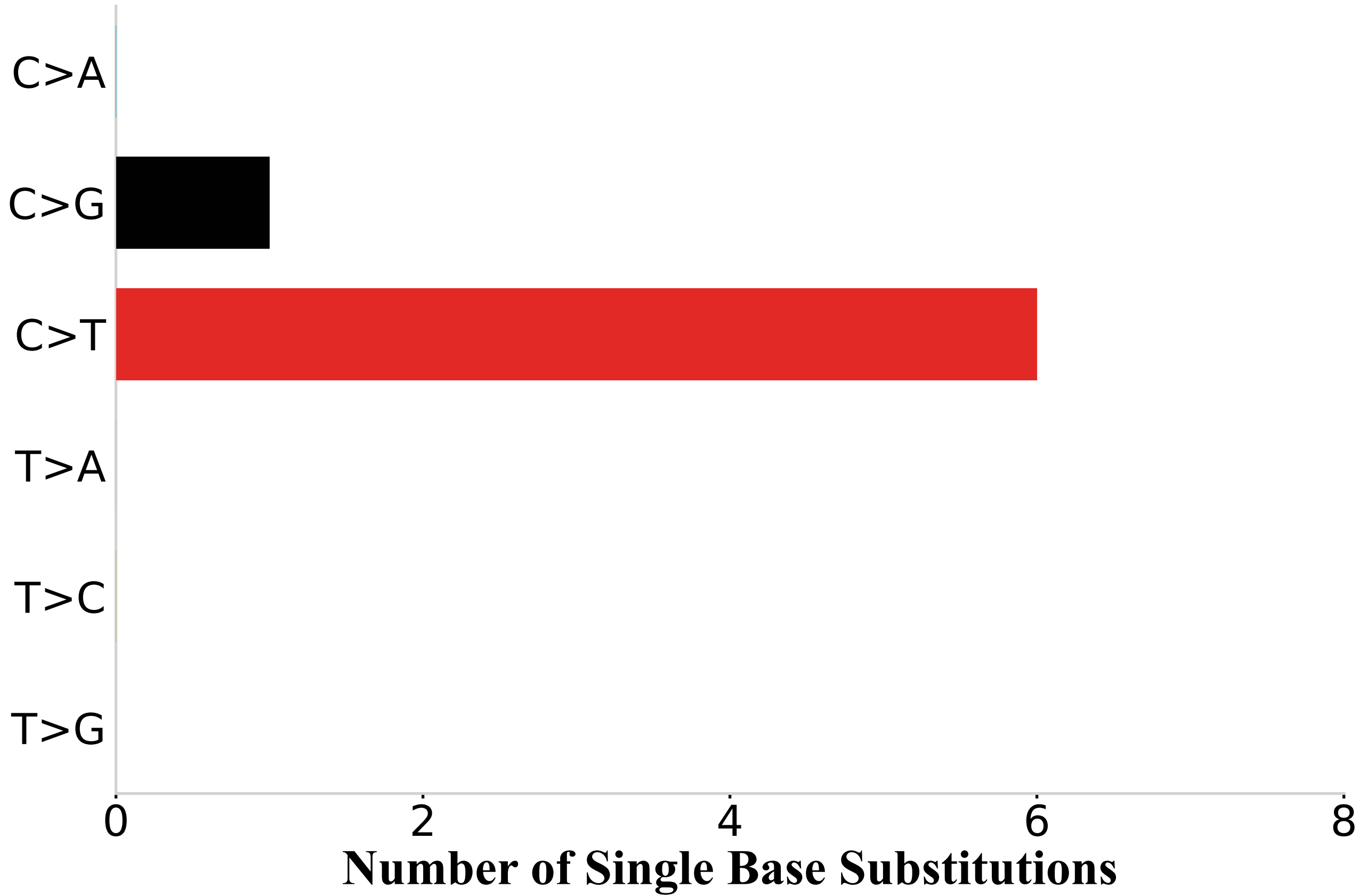
P-0046972-T01-IM6: 4 subs



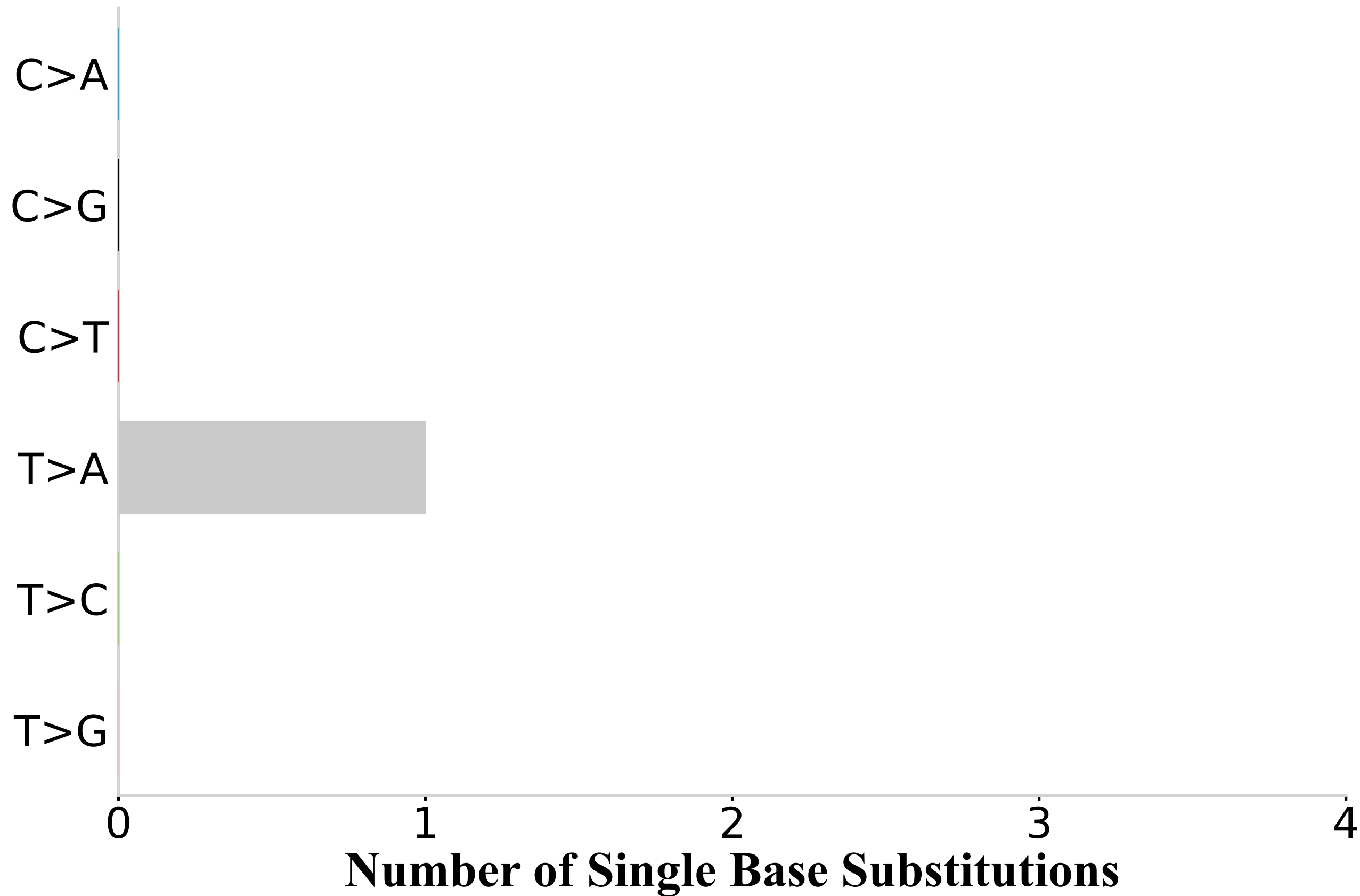
P-0046990-T01-IM6: 7 subs



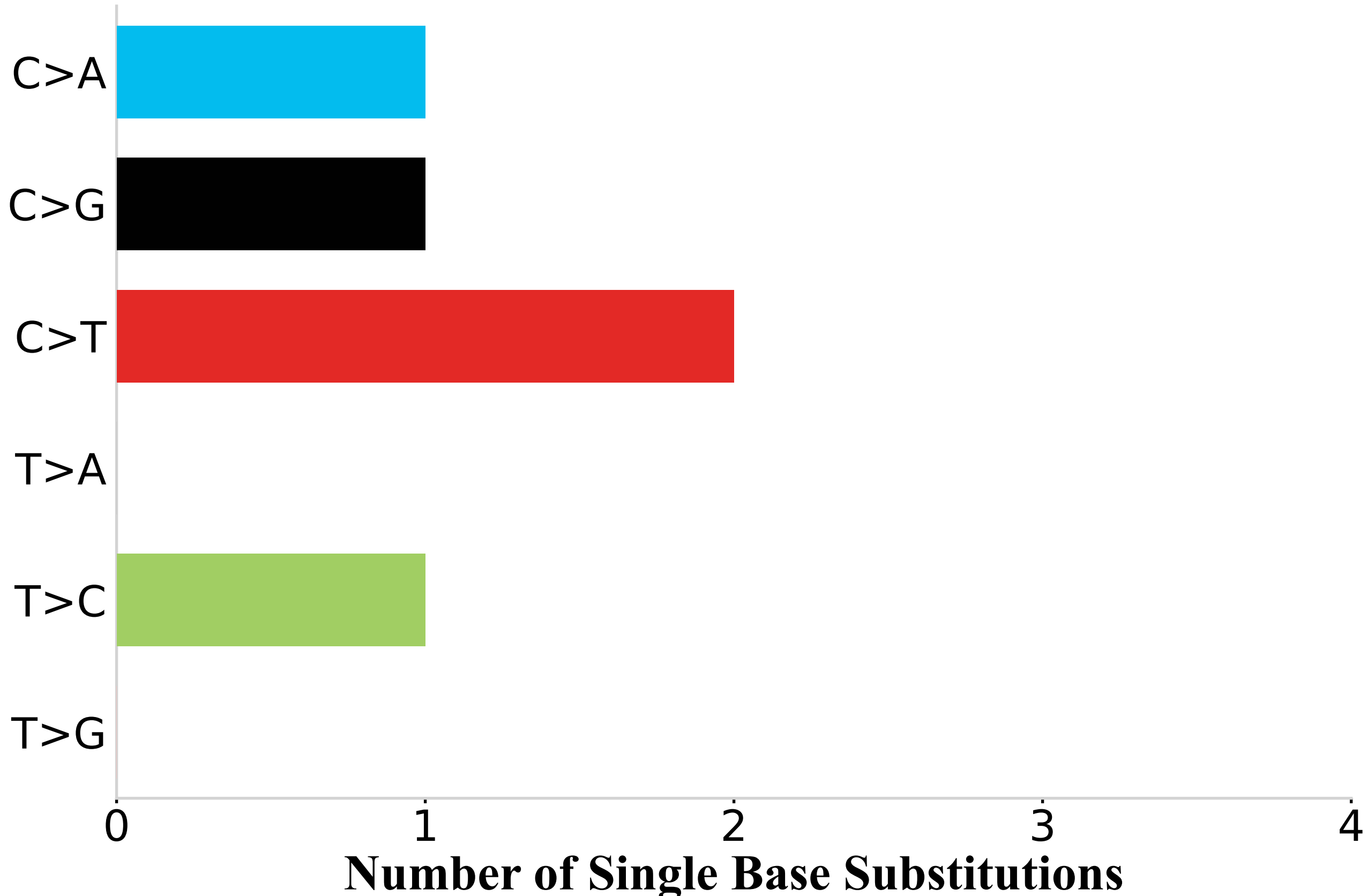
P-0047306-T01-IM6: 7 subs



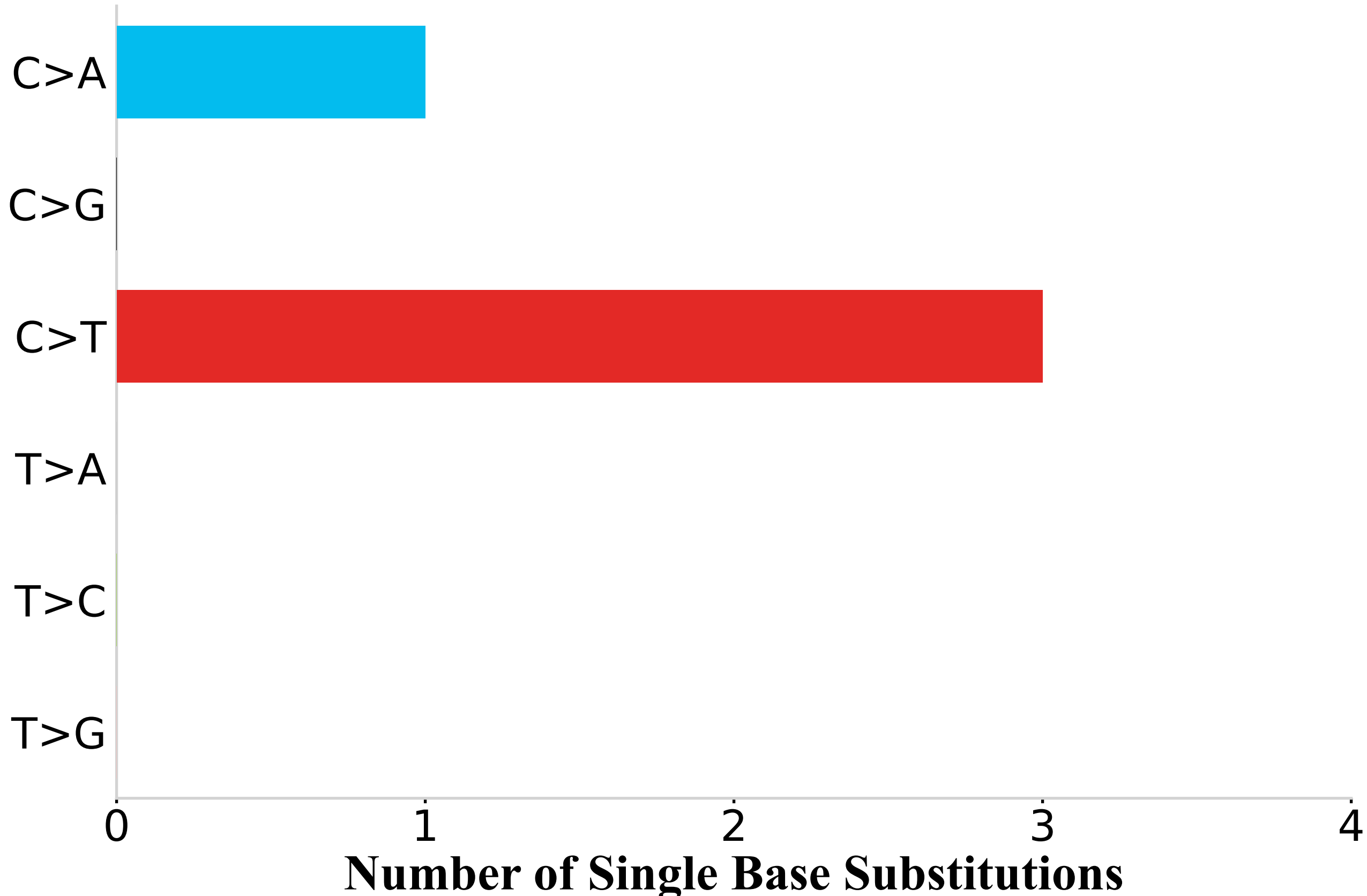
P-0047317-T01-IM6: 1 subs



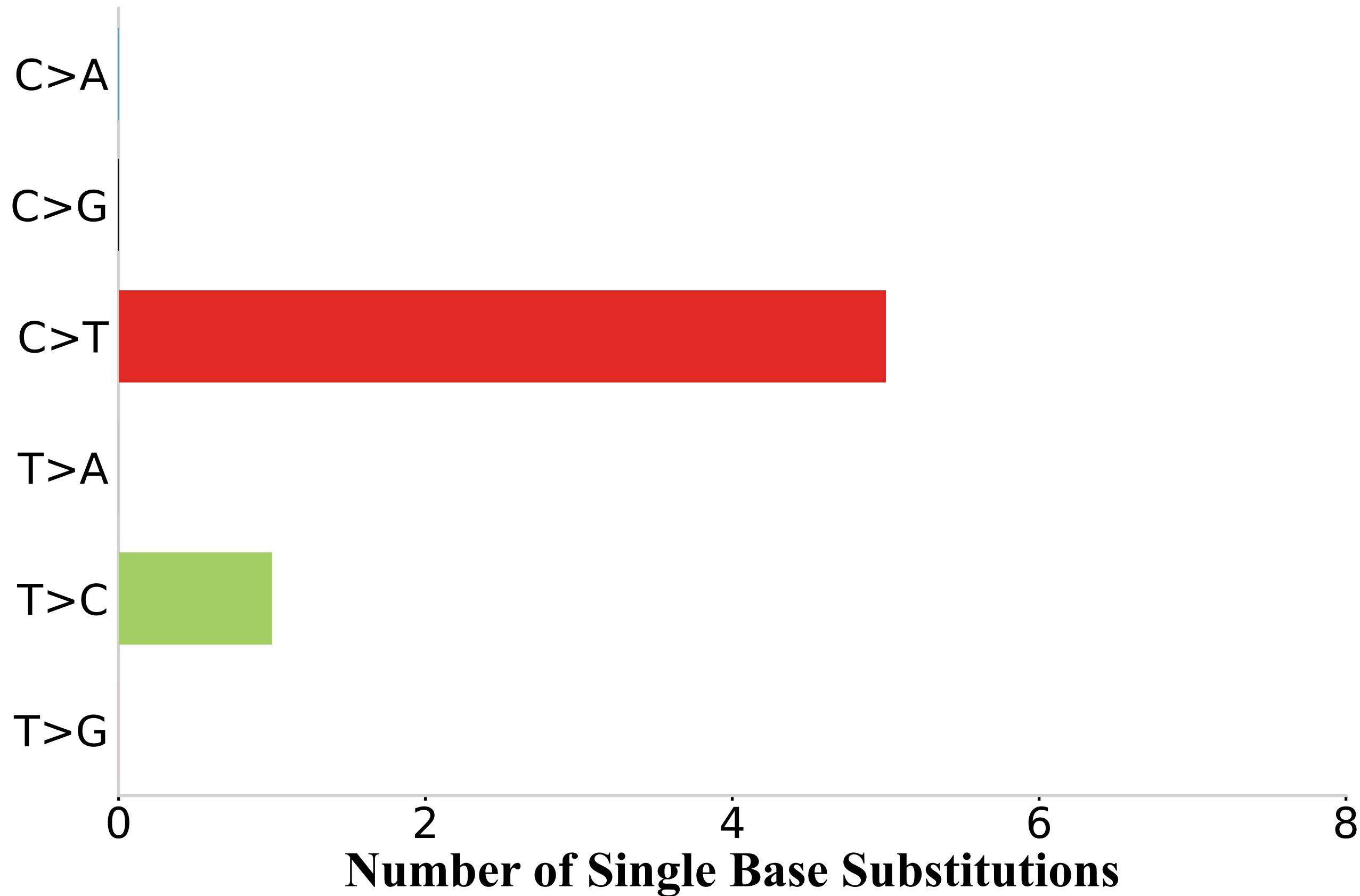
P-0047495-T01-IM6: 5 subs



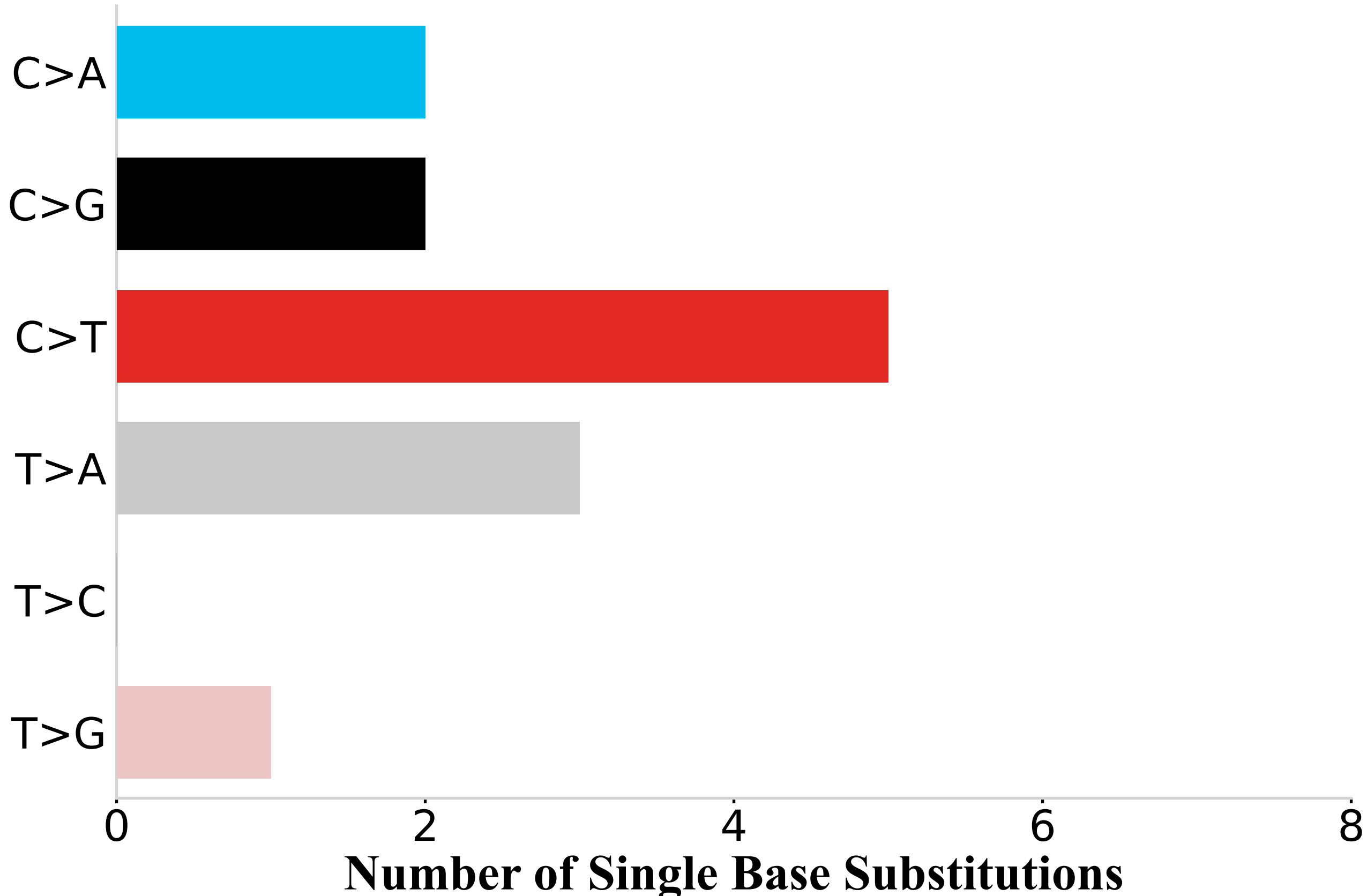
P-0047544-T01-IM6: 4 subs



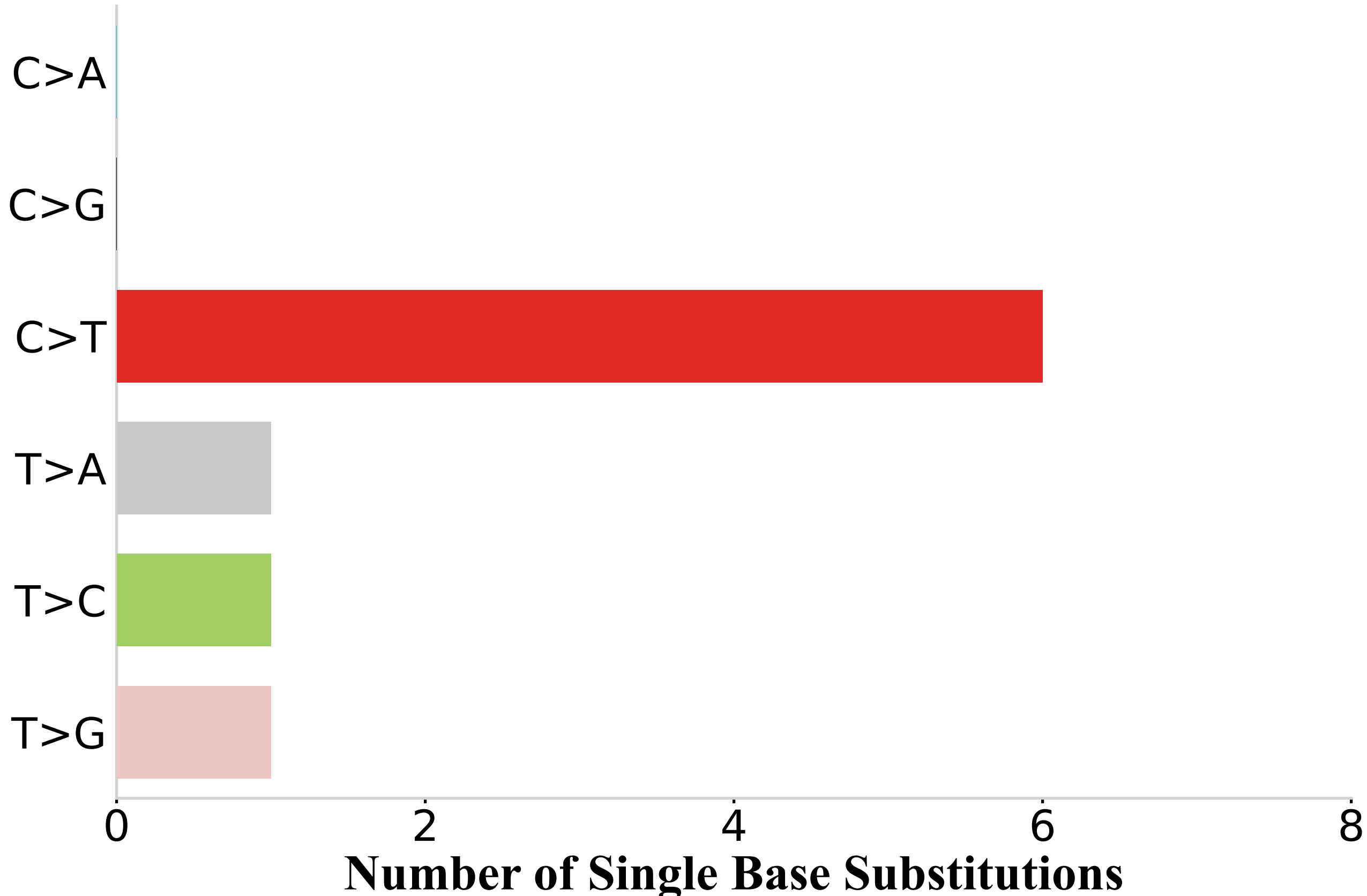
P-0047648-T01-IM6: 6 subs



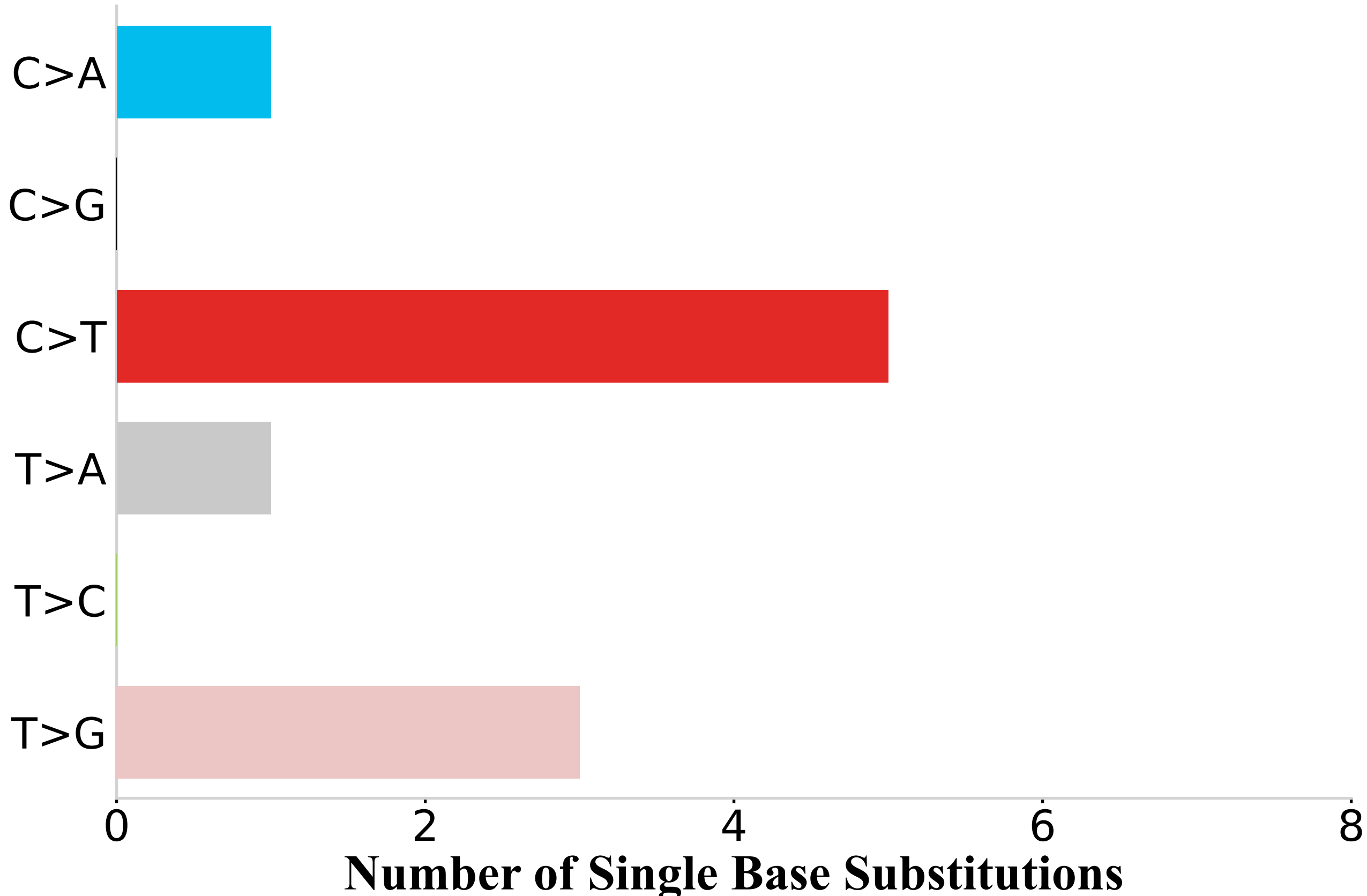
P-0047697-T01-IM6: 13 subs



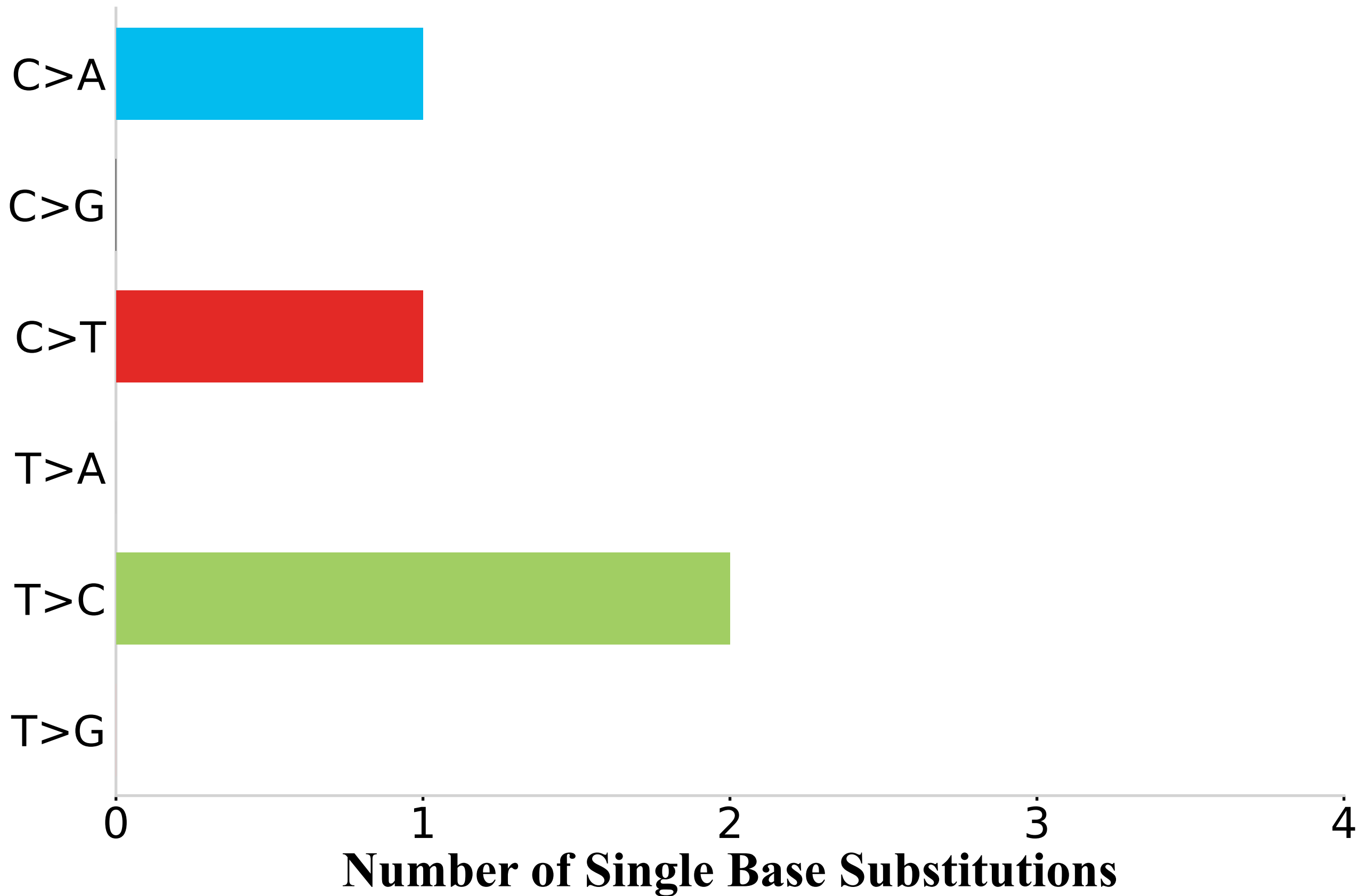
P-0047737-T01-IM6: 9 subs



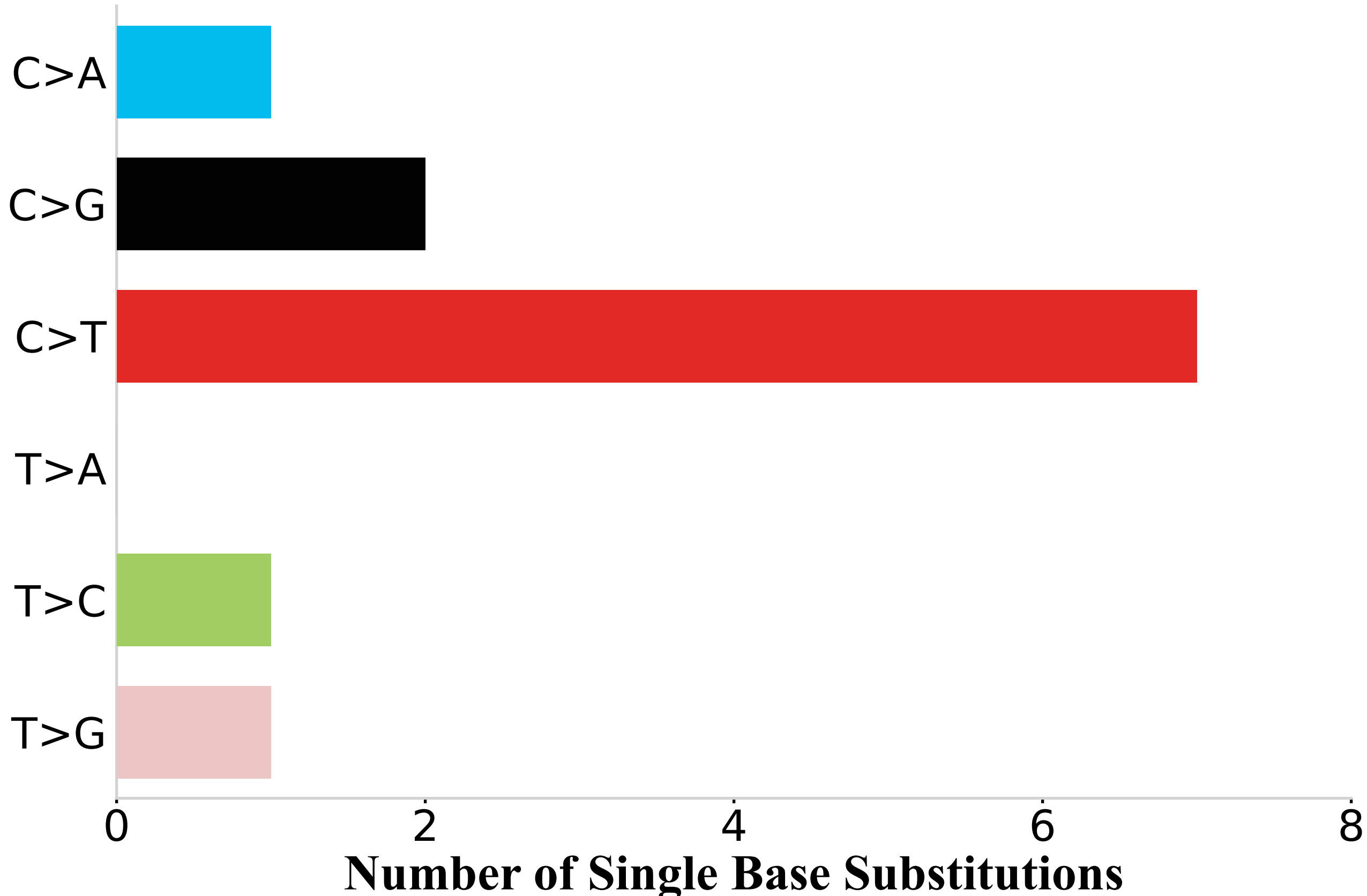
P-0047889-T01-IM6: 10 subs



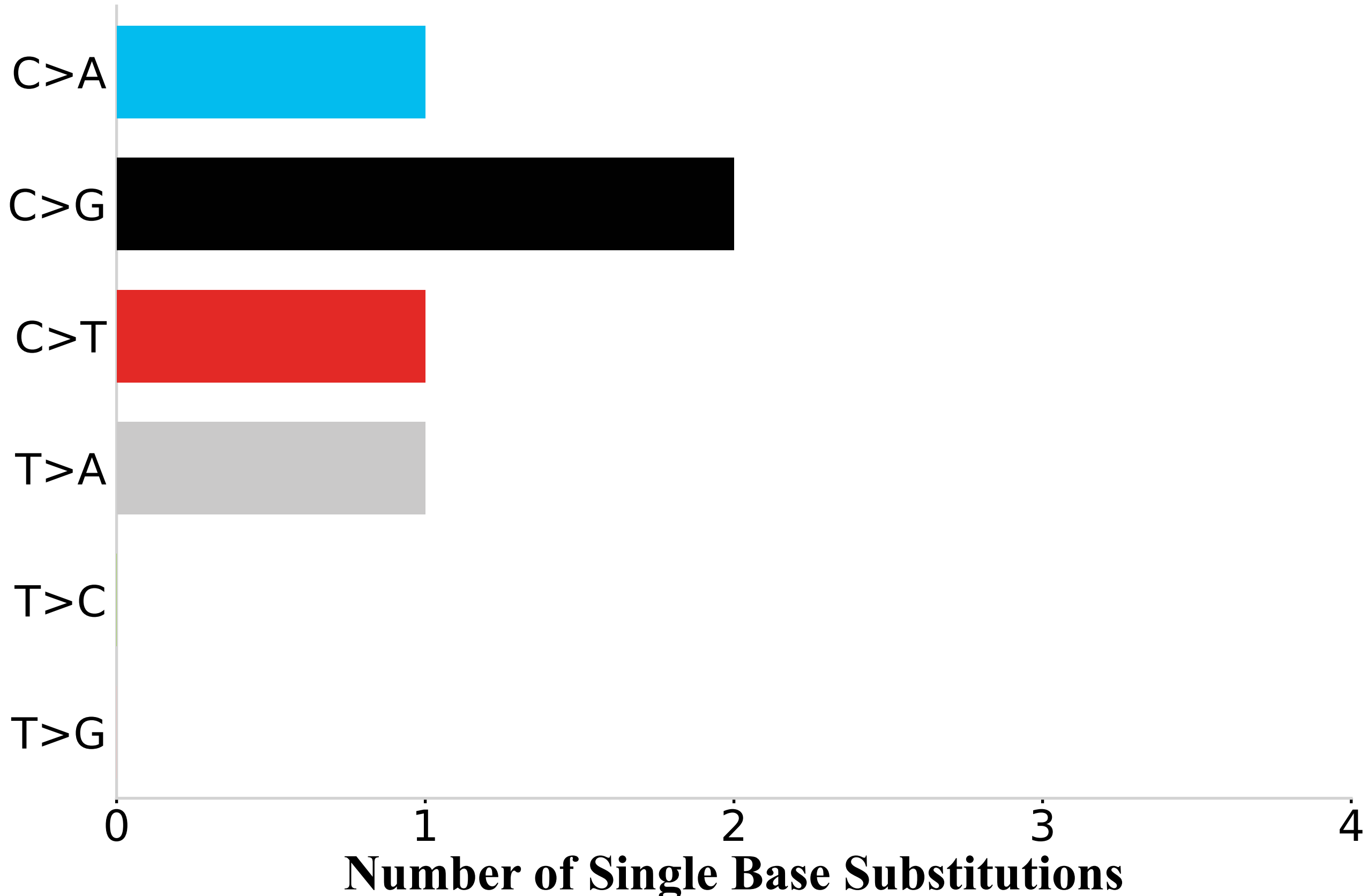
P-0047892-T01-IM6: 4 subs



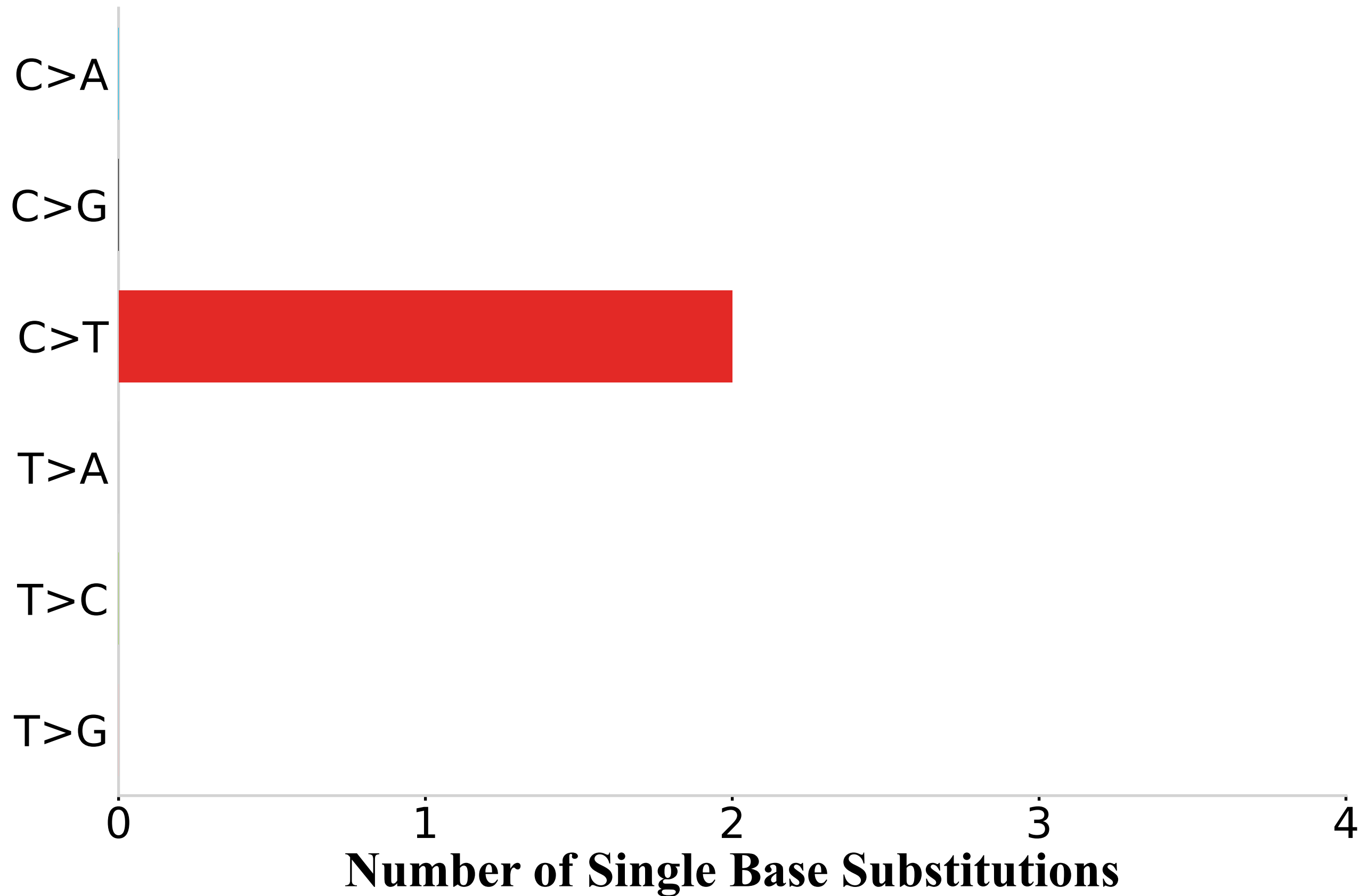
P-0048056-T01-IM6: 12 subs



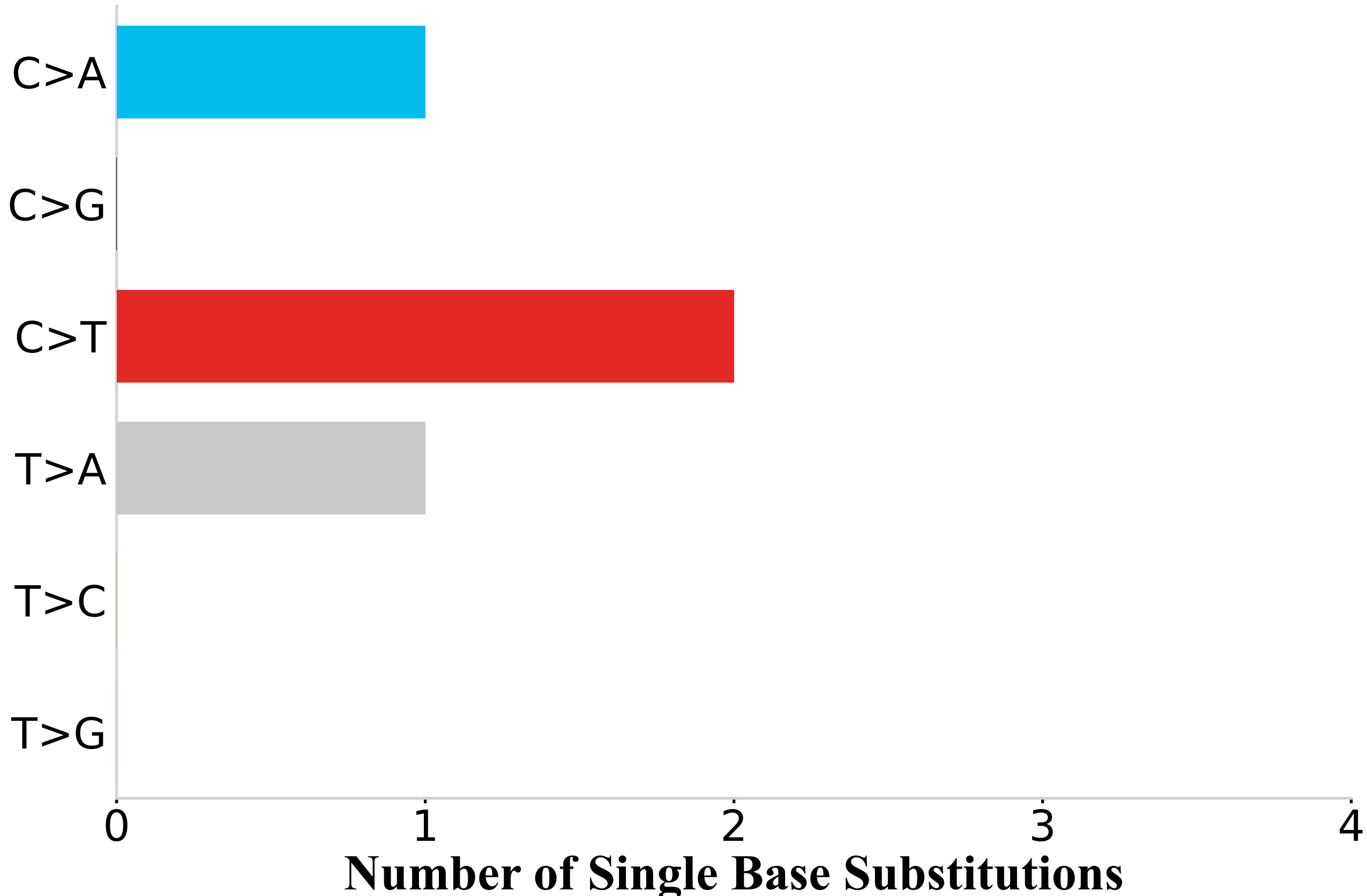
P-0048109-T01-IM6: 5 subs



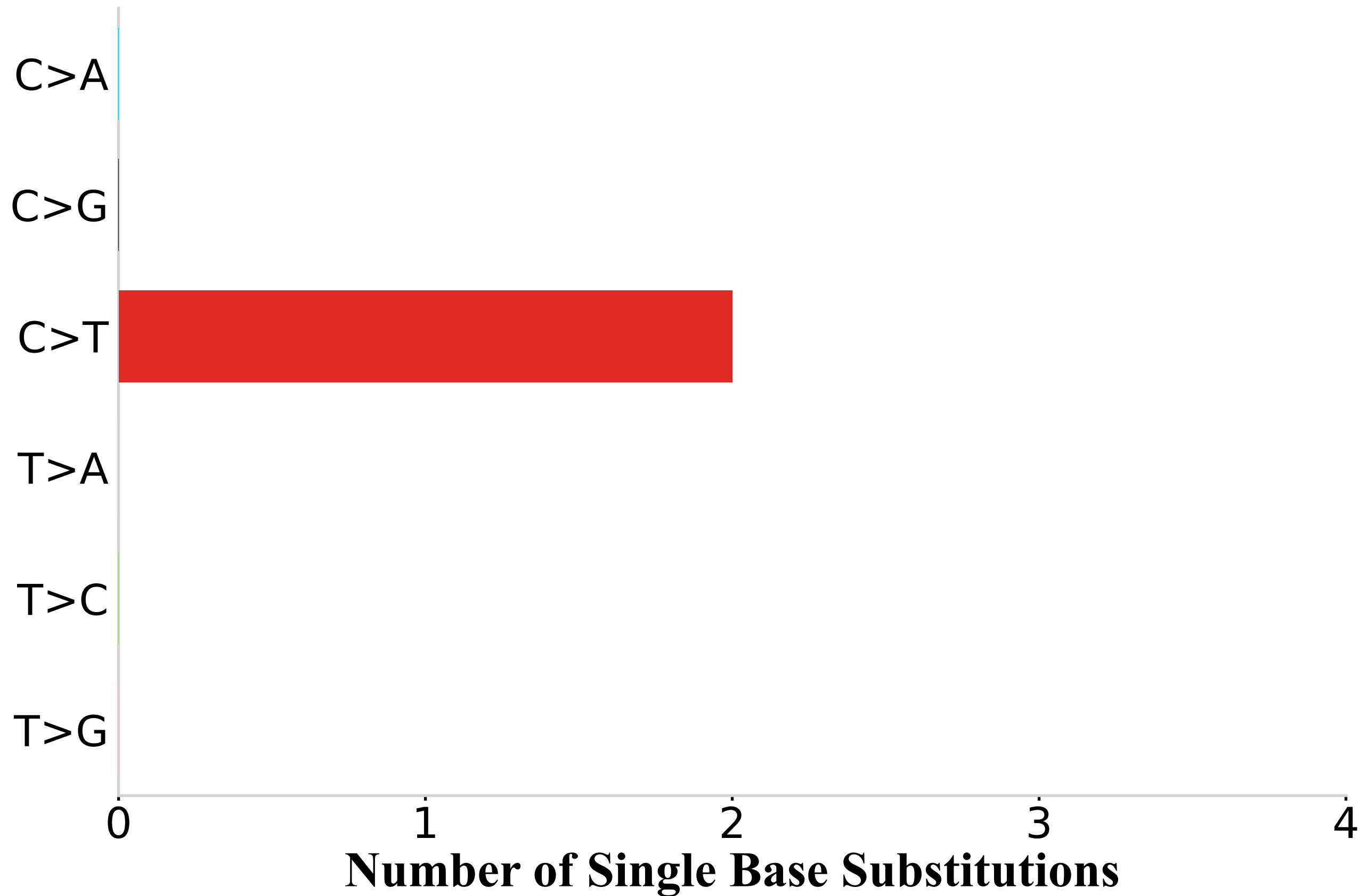
P-0048231-T01-IM6: 2 subs



P-0048292-T01-IM6: 4 subs



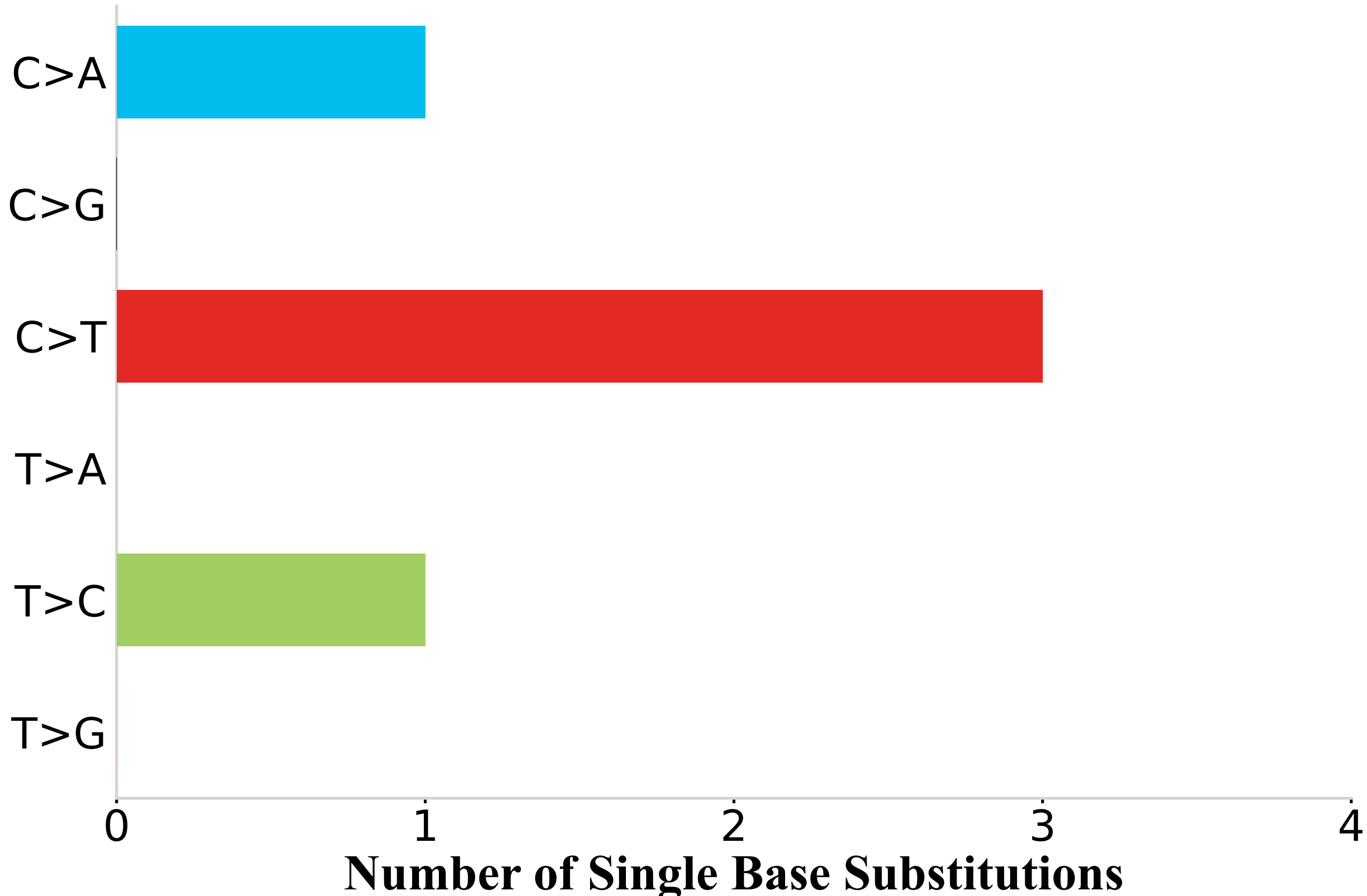
P-0048354-T01-IM6: 2 subs



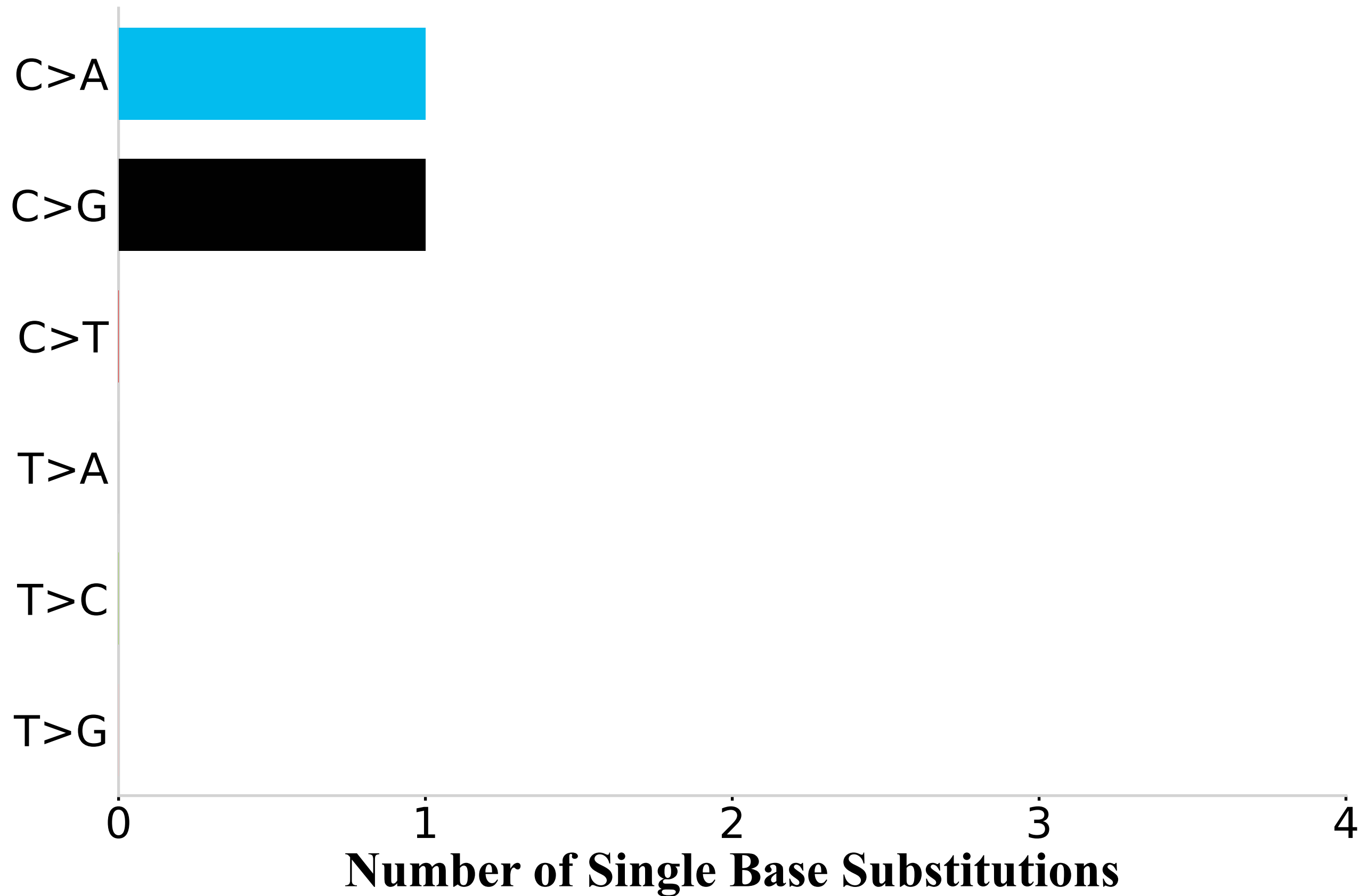
P-0048477-T01-IM6: 1 subs



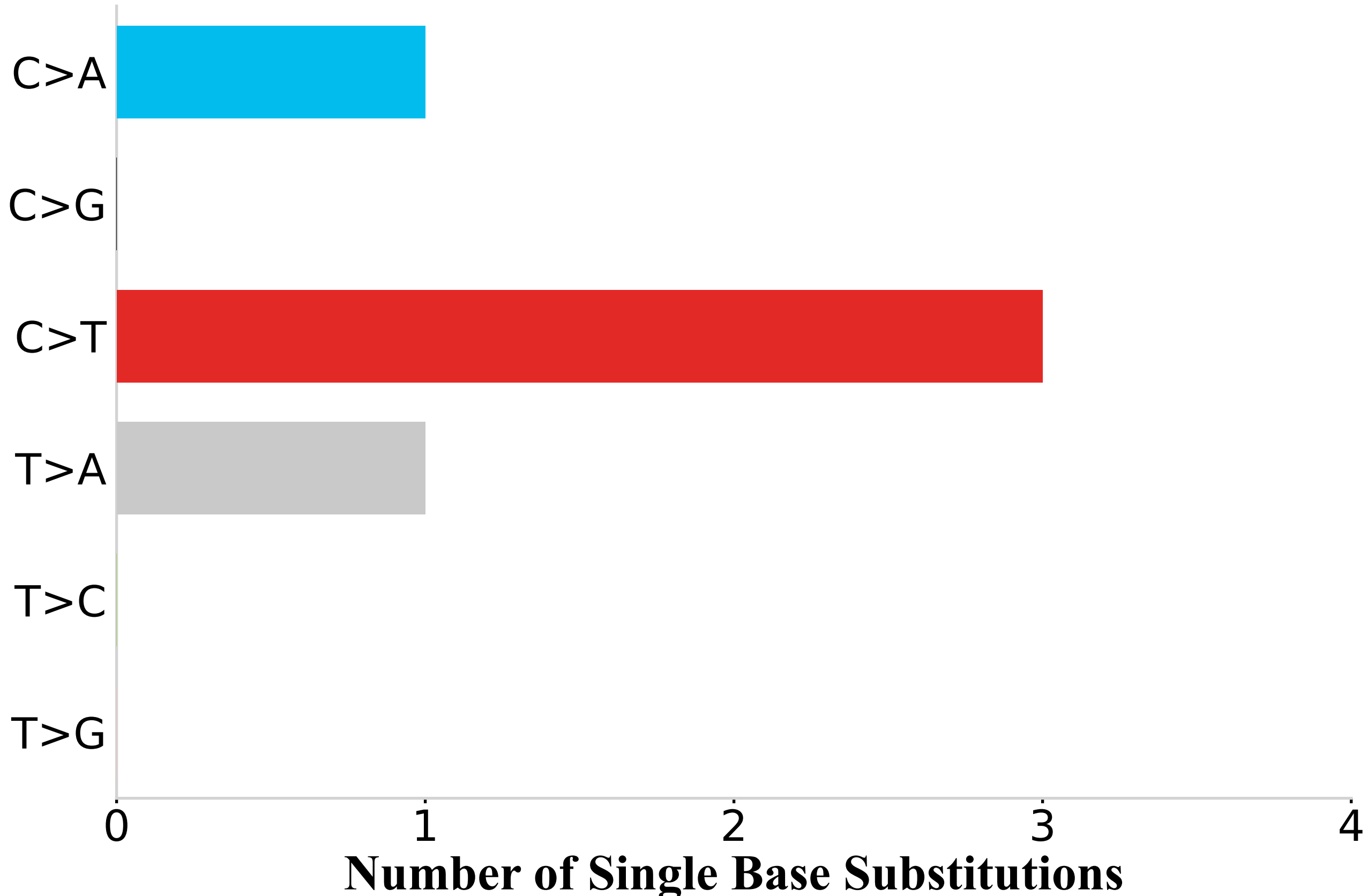
P-0048513-T01-IM6: 5 subs



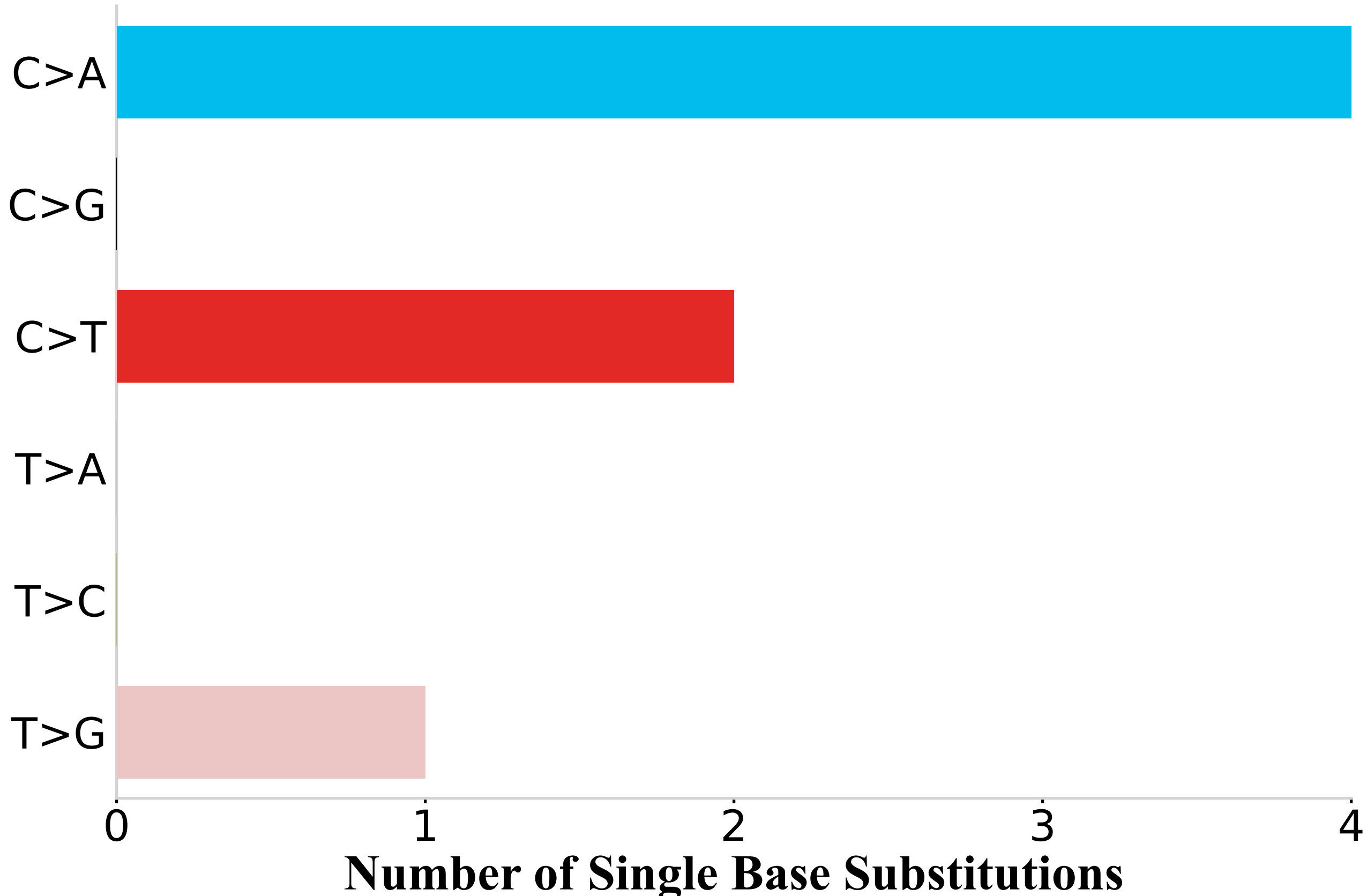
P-0048627-T01-IM6: 2 subs



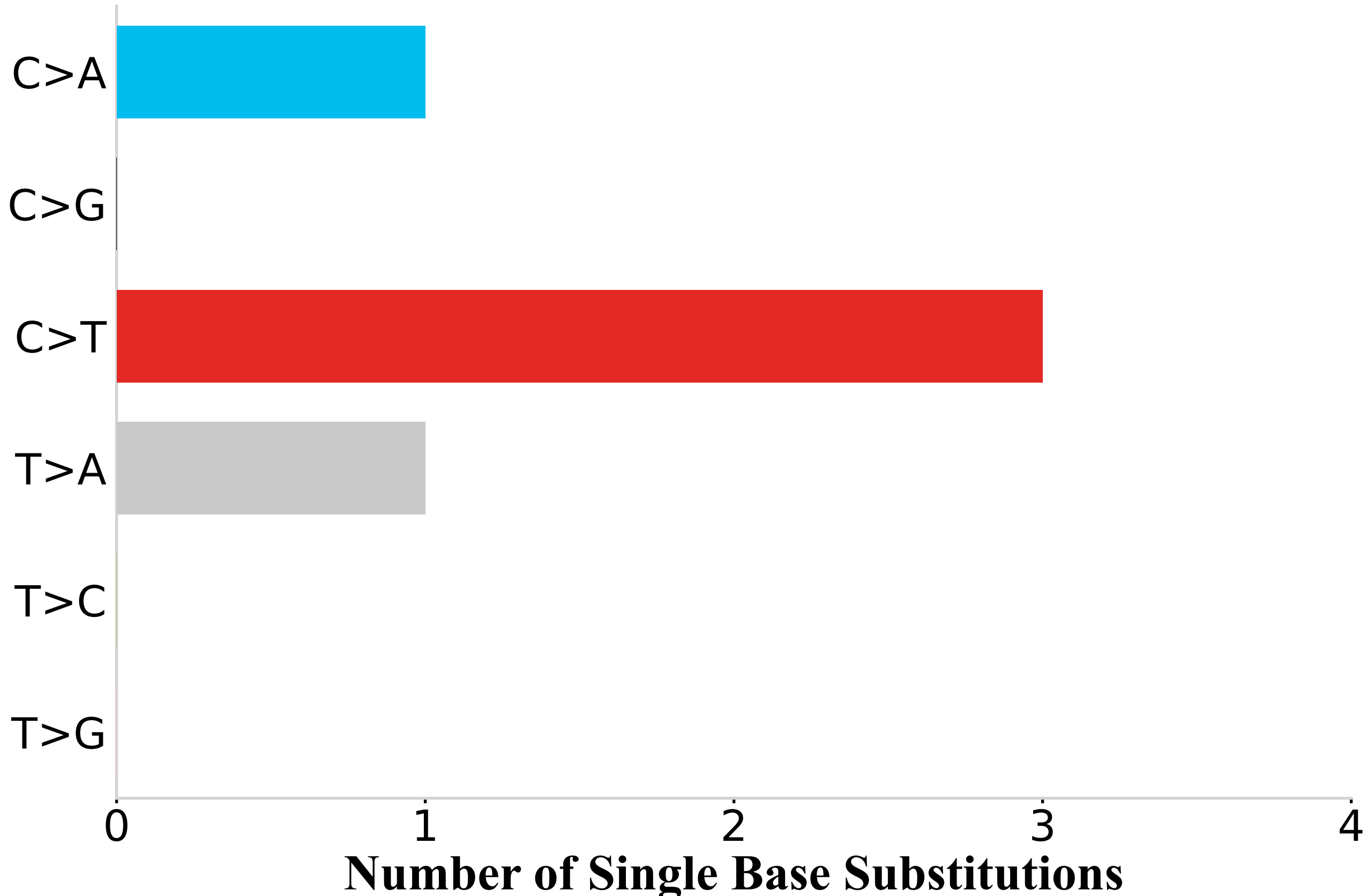
P-0048895-T01-IM6: 5 subs



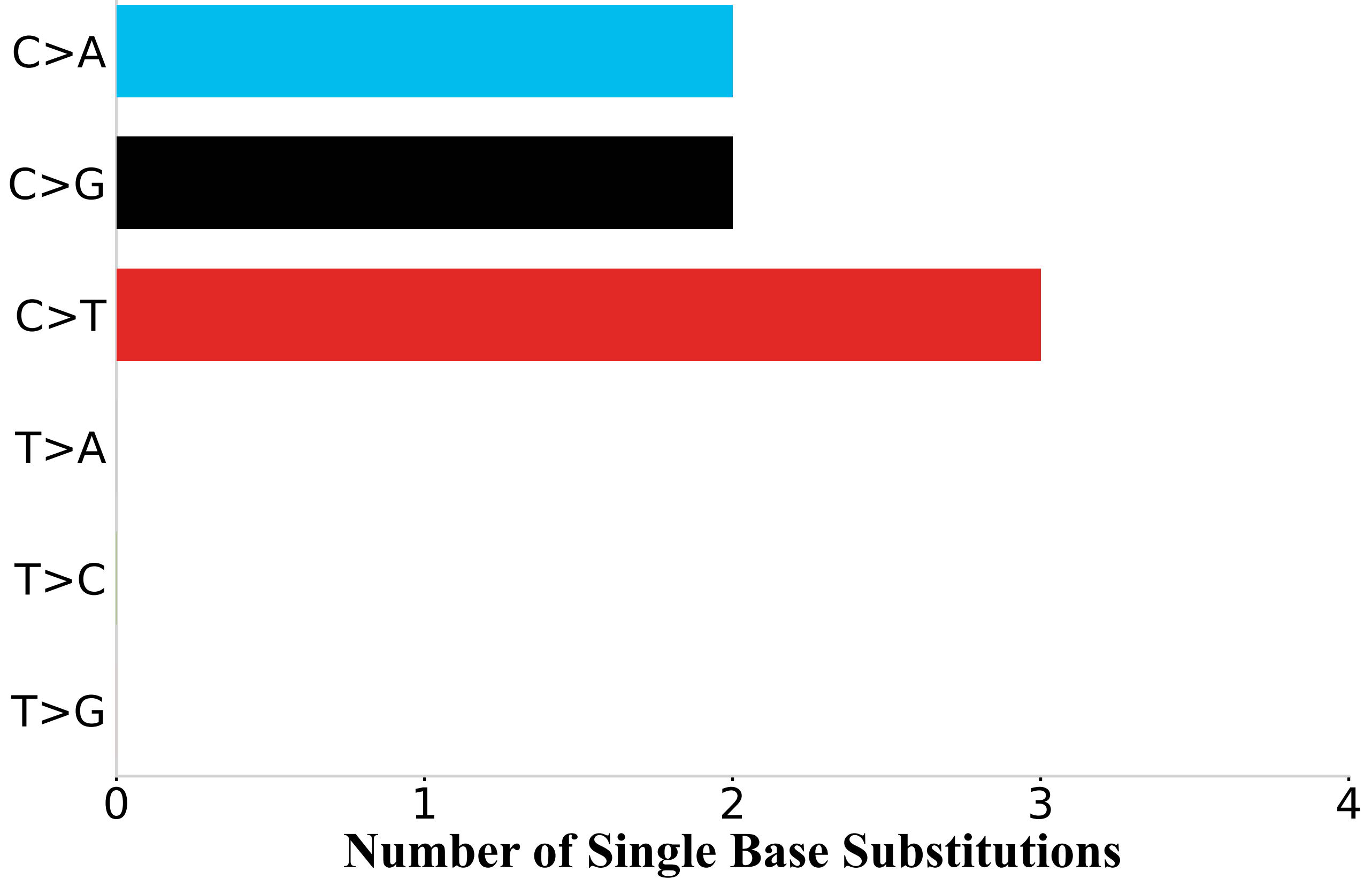
P-0048954-T01-IM6: 7 subs



P-0049041-T01-IM6: 5 subs



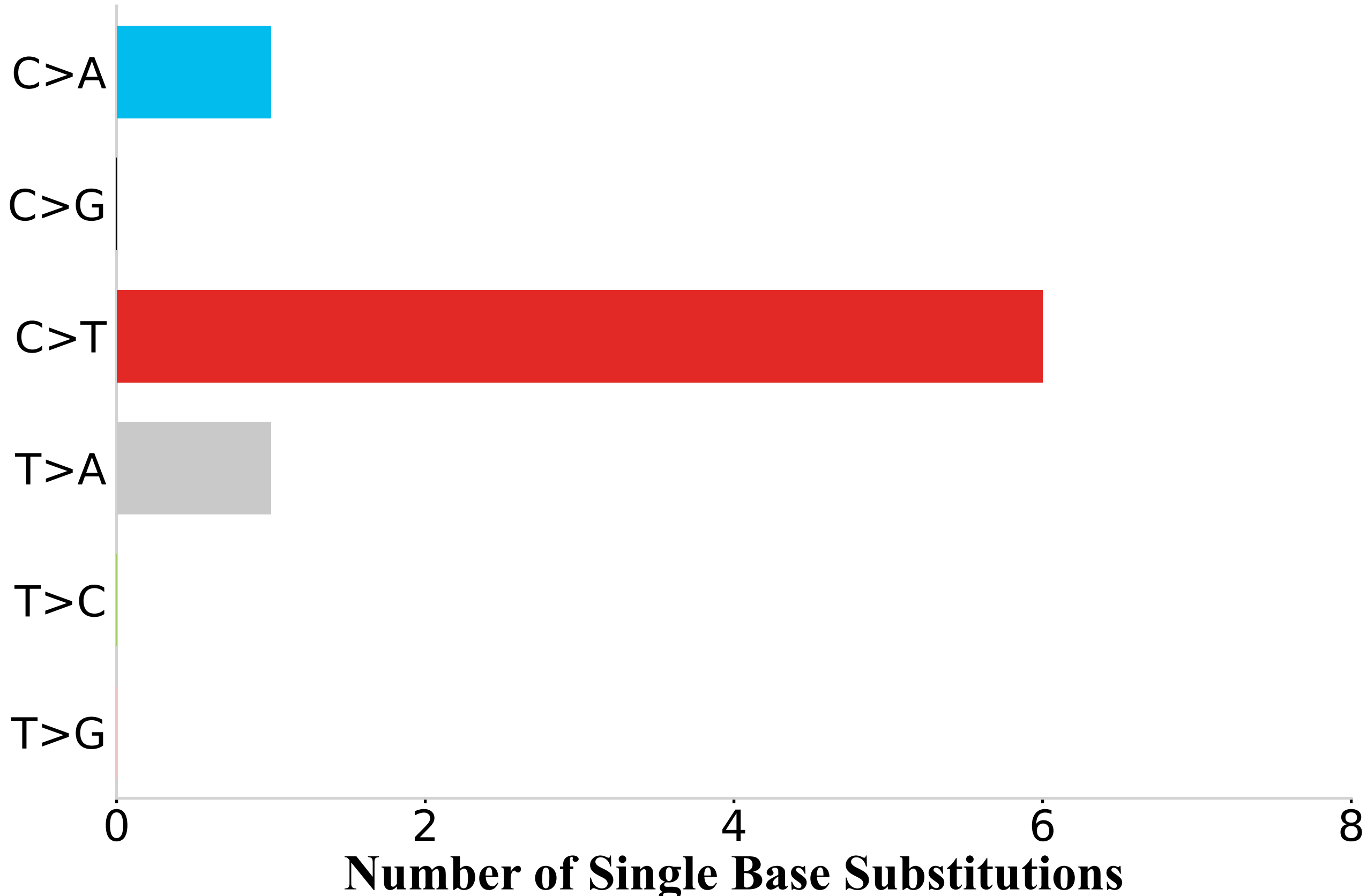
P-0049050-T01-IM6: 7 subs



P-0049061-T01-IM6: 1 subs



P-0049066-T01-IM6: 8 subs



P-0049074-T01-IM6: 4 subs

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C>G

C>T

T>A

T>C

T>G

0

1

2

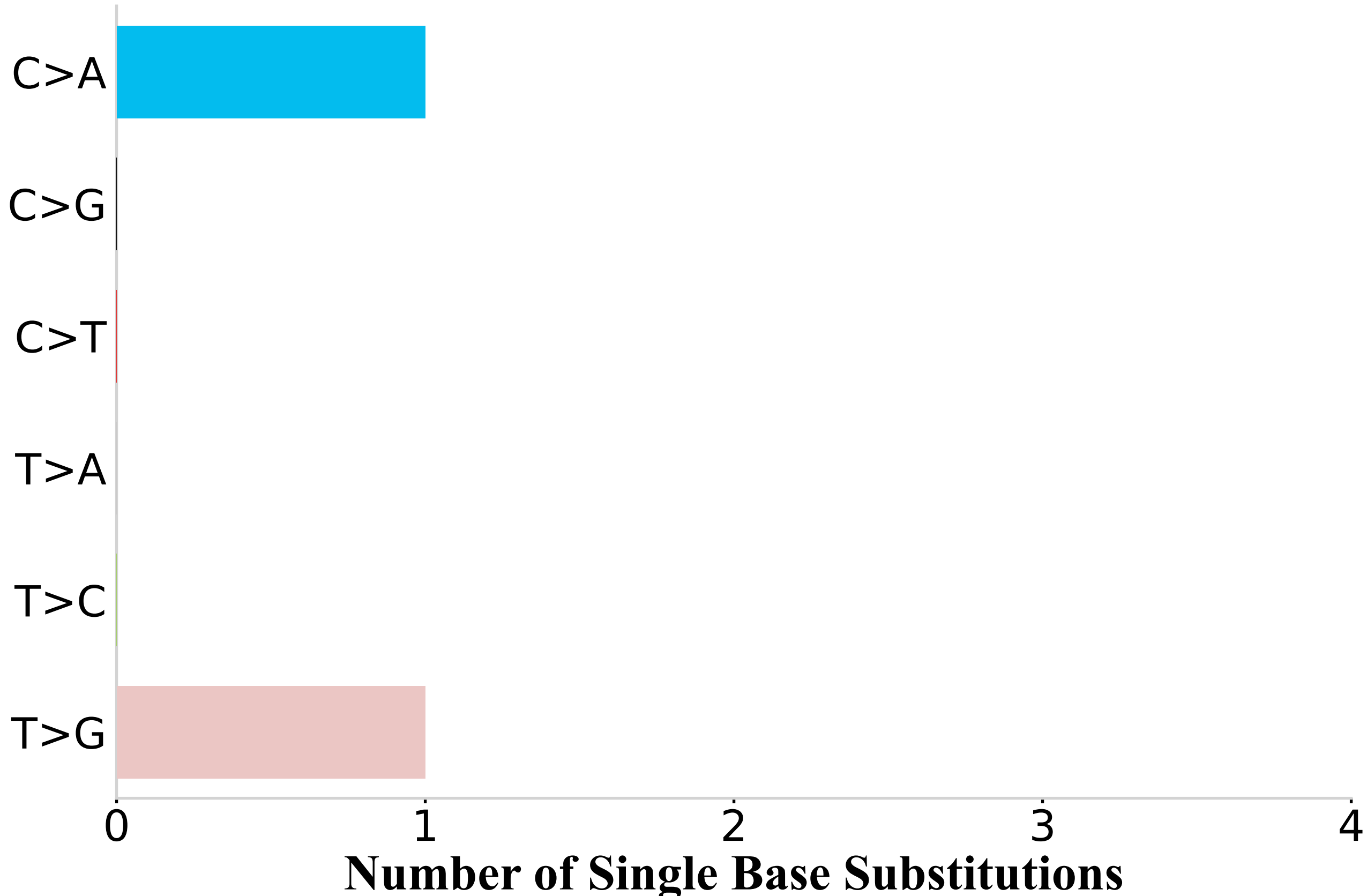
3

4

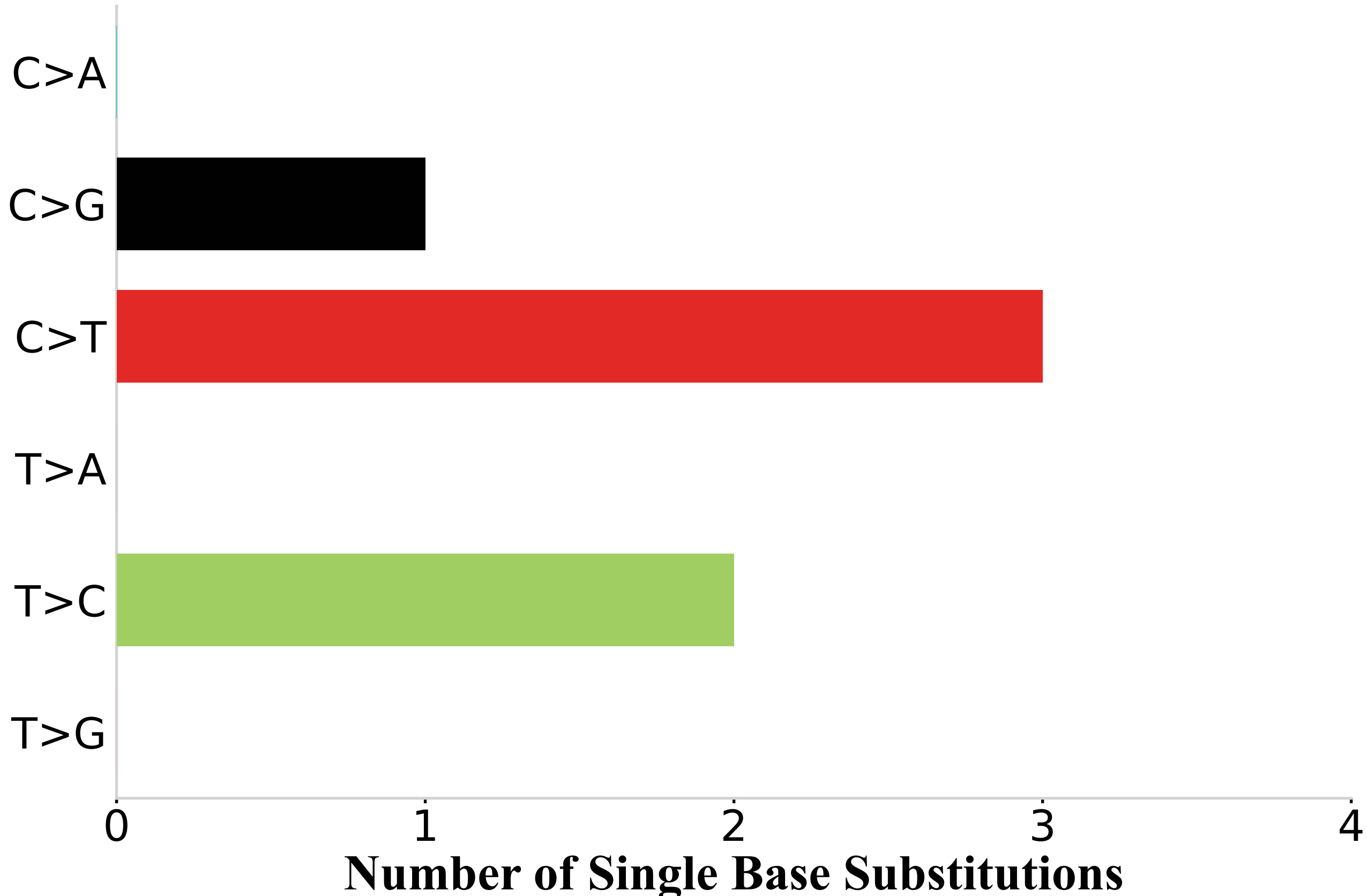
Number of Single Base Substitutions



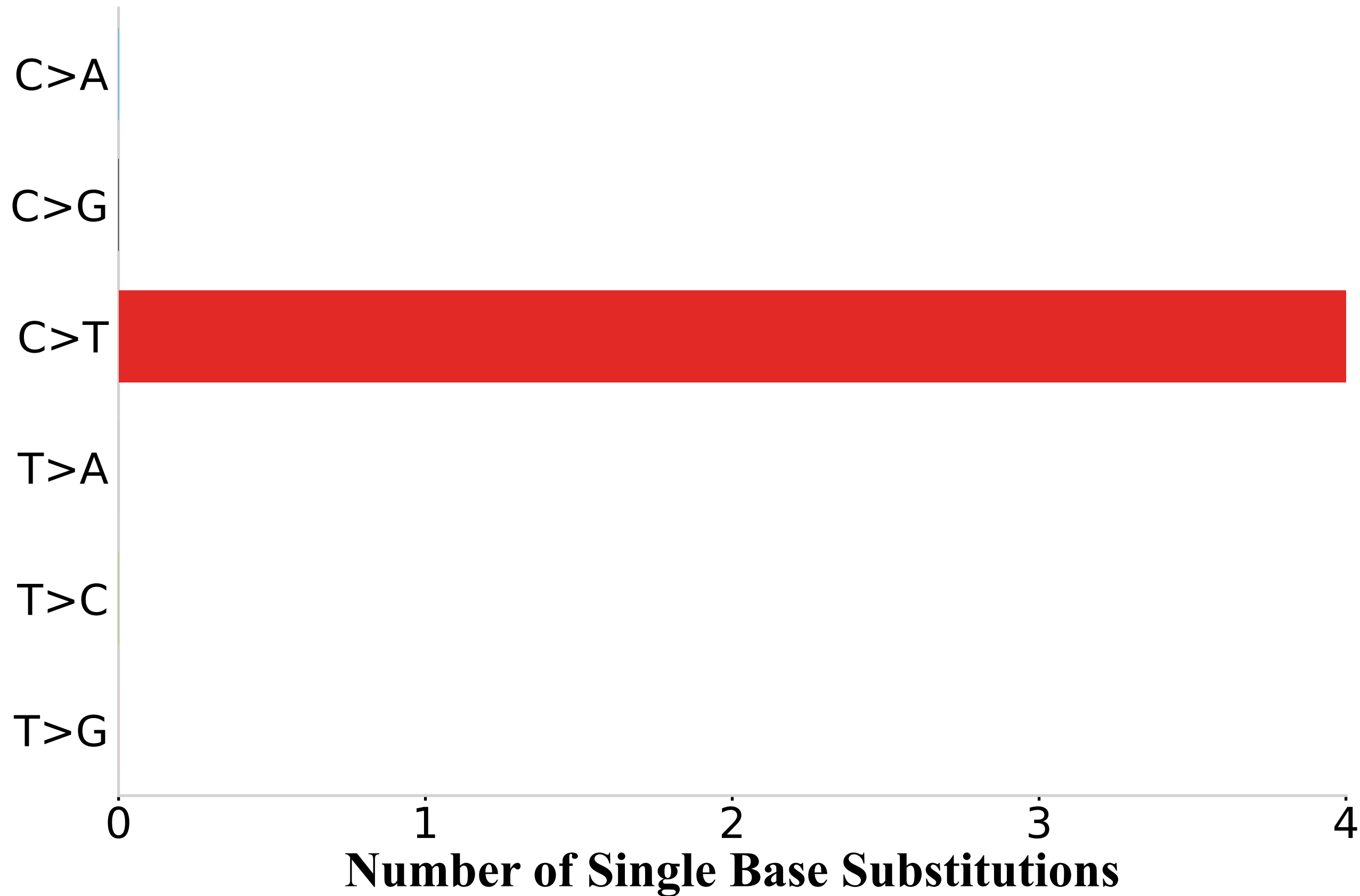
P-0049348-T01-IM6: 2 subs



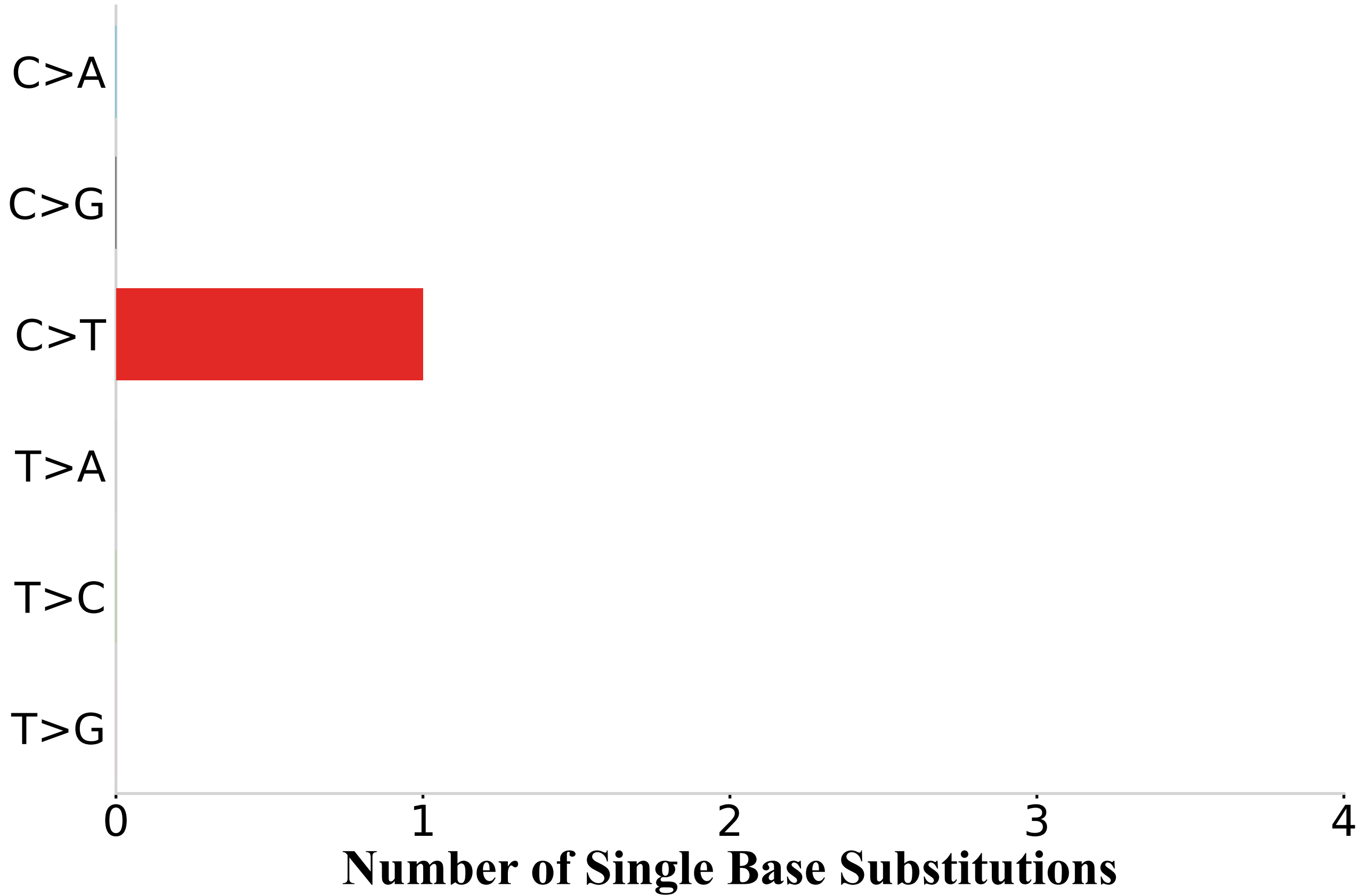
P-0049379-T01-IM6: 6 subs



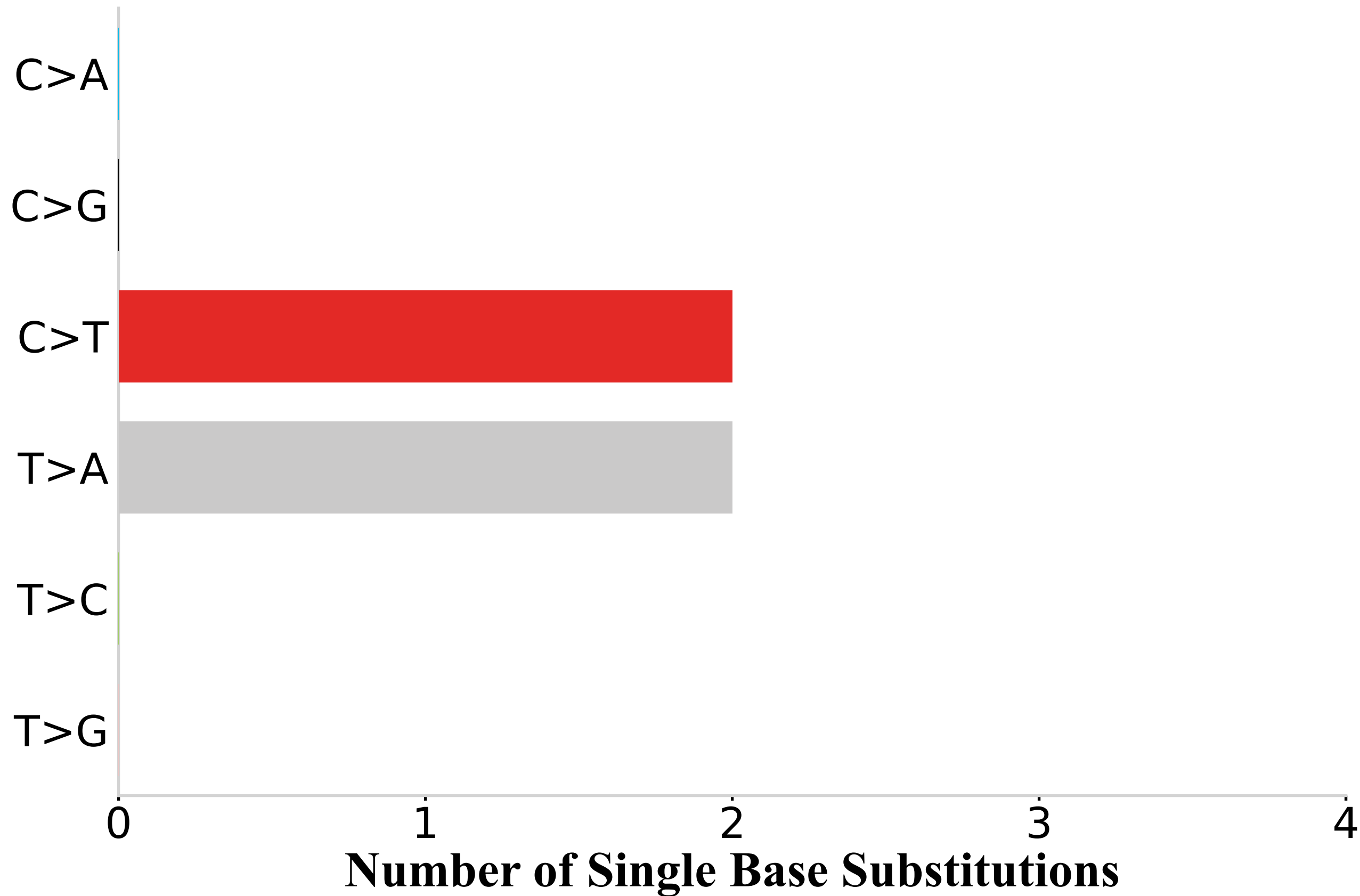
P-0049499-T01-IM6: 4 subs



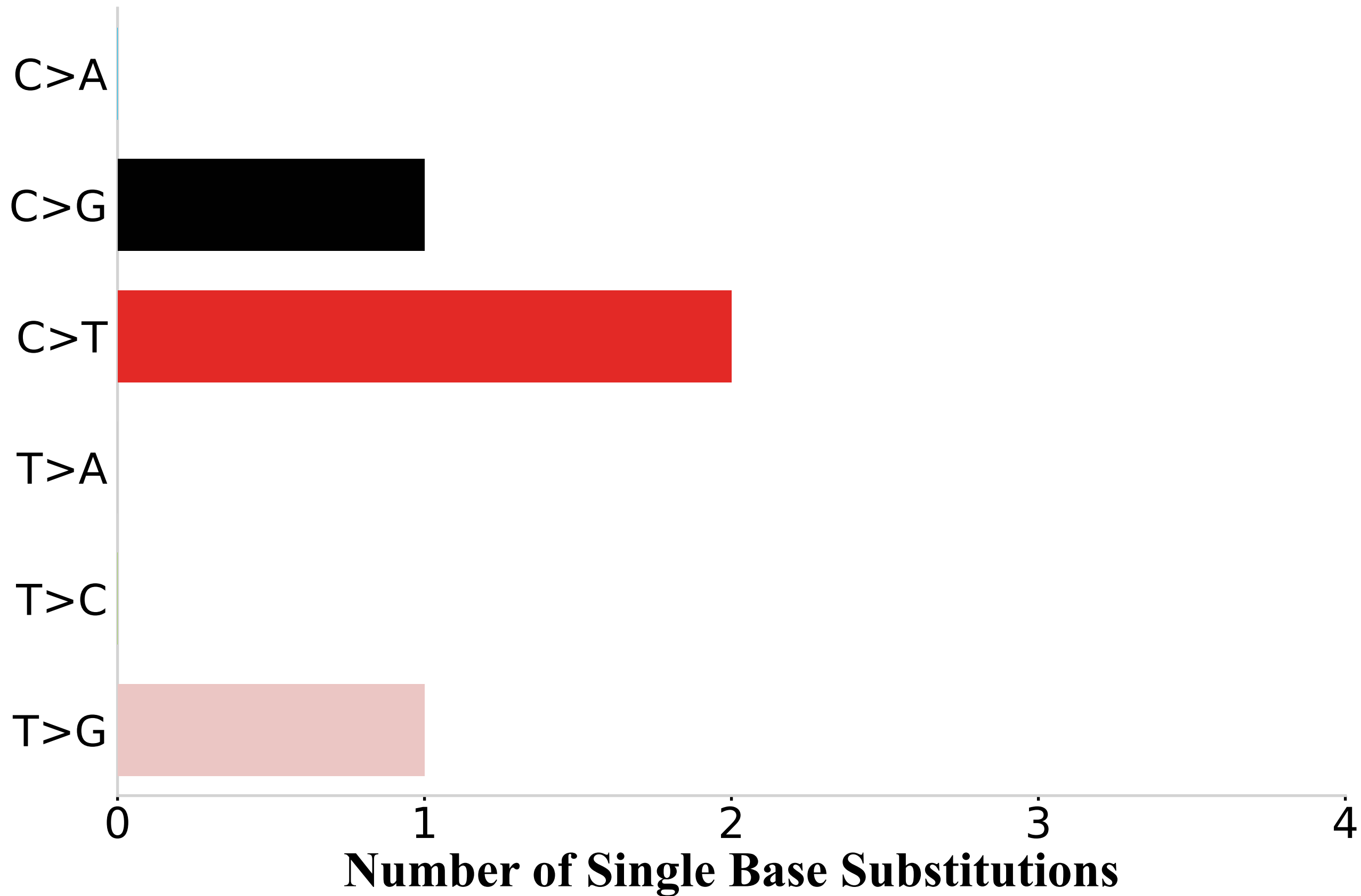
P-0049542-T01-IM6: 1 subs



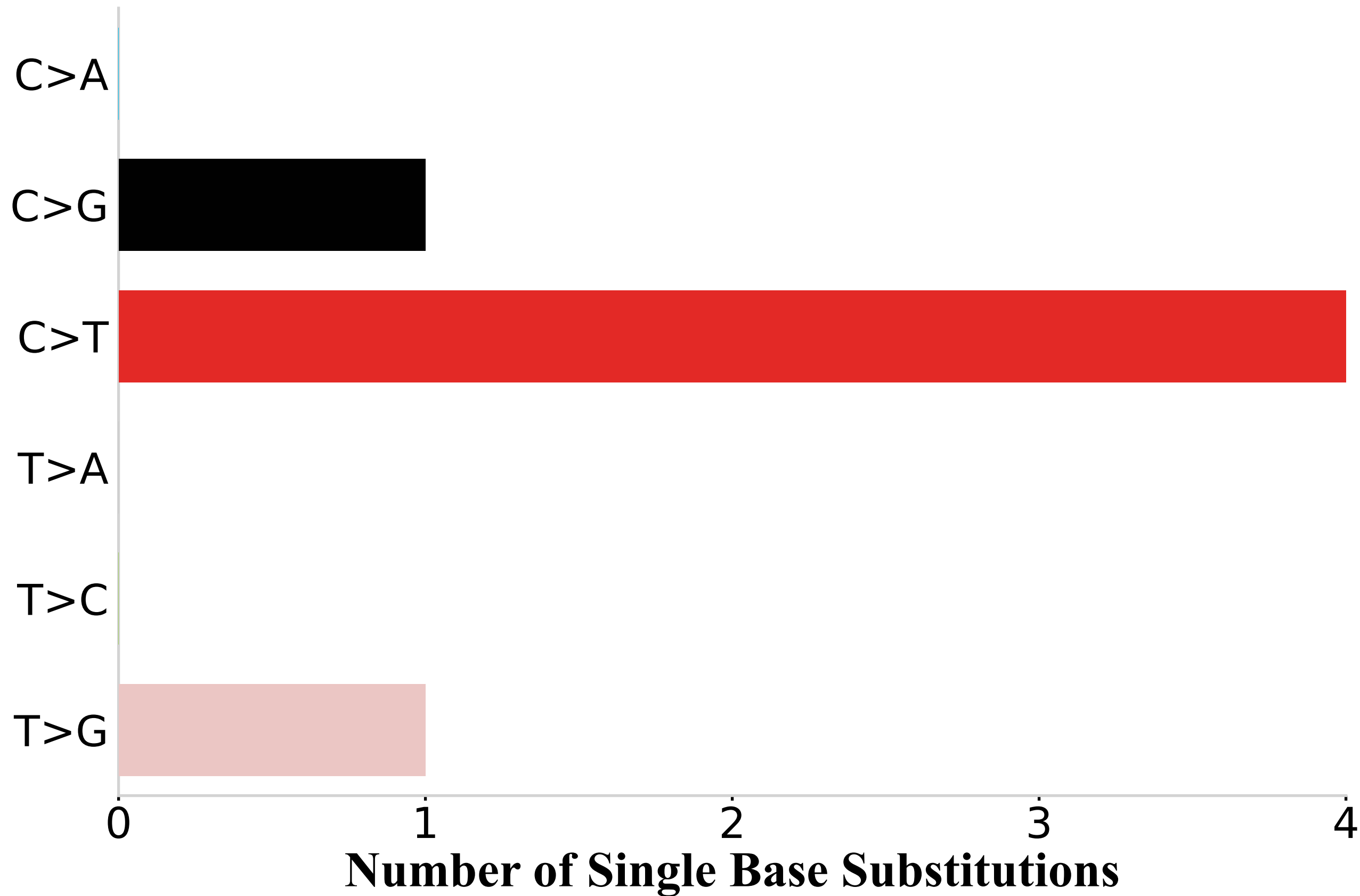
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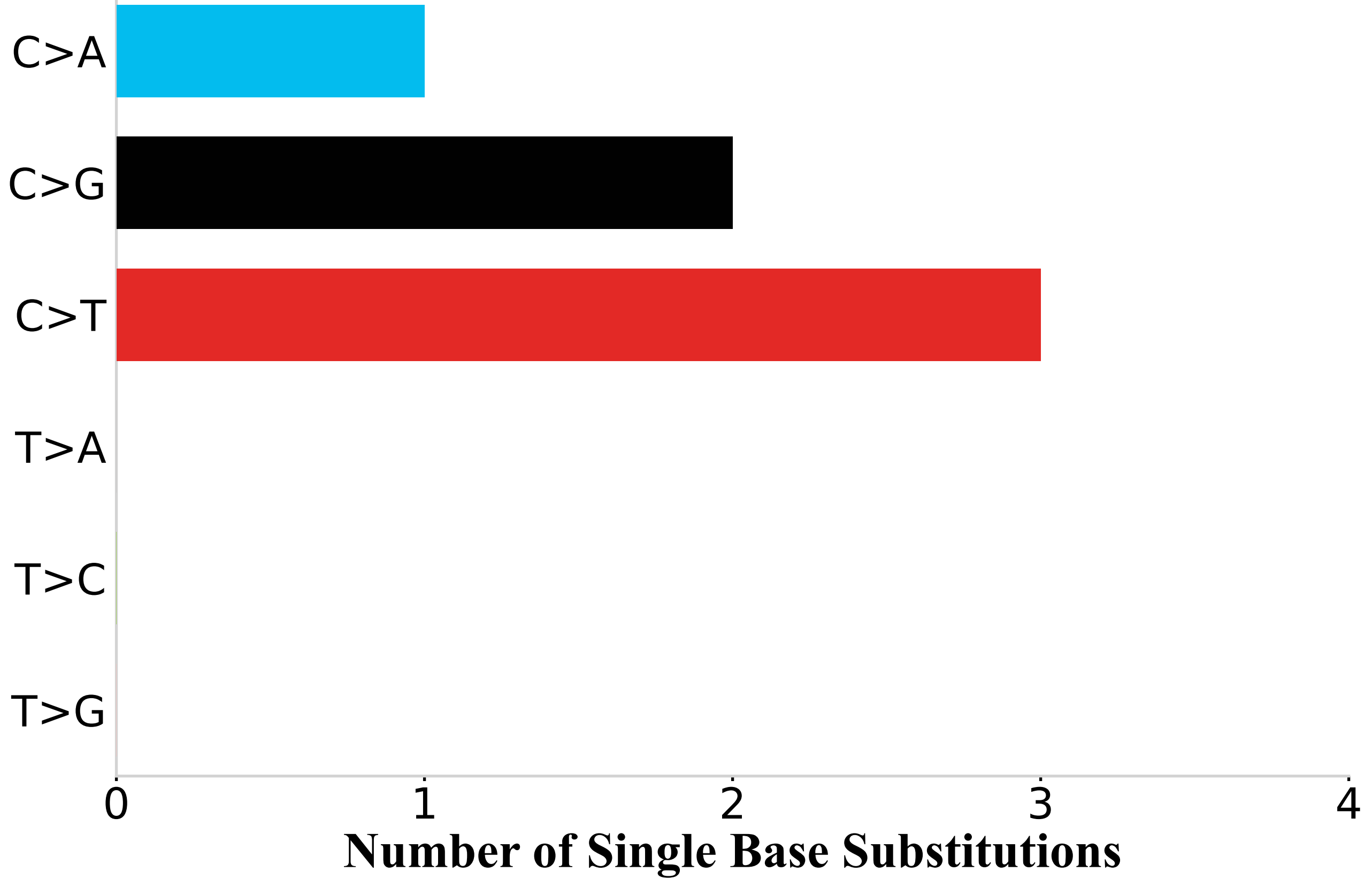
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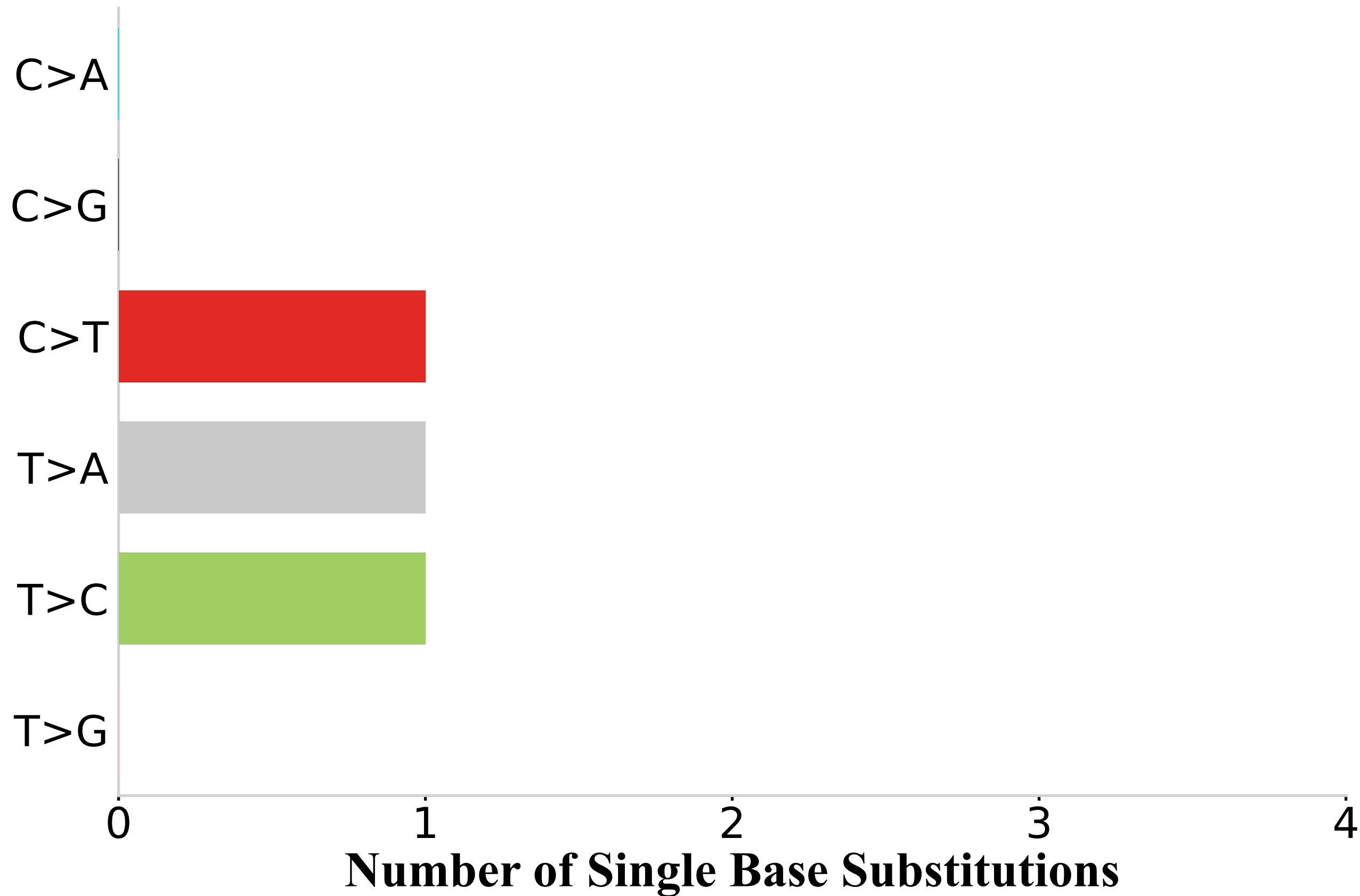
P-0049846-T01-IM6: 6 subs



P-0049929-T01-IM6: 6 subs



P-0049930-T01-IM6: 3 subs



P-0049933-T01-IM6: 3 subs

C>A

C>G

C>T

T>A

T>C

T>G

0

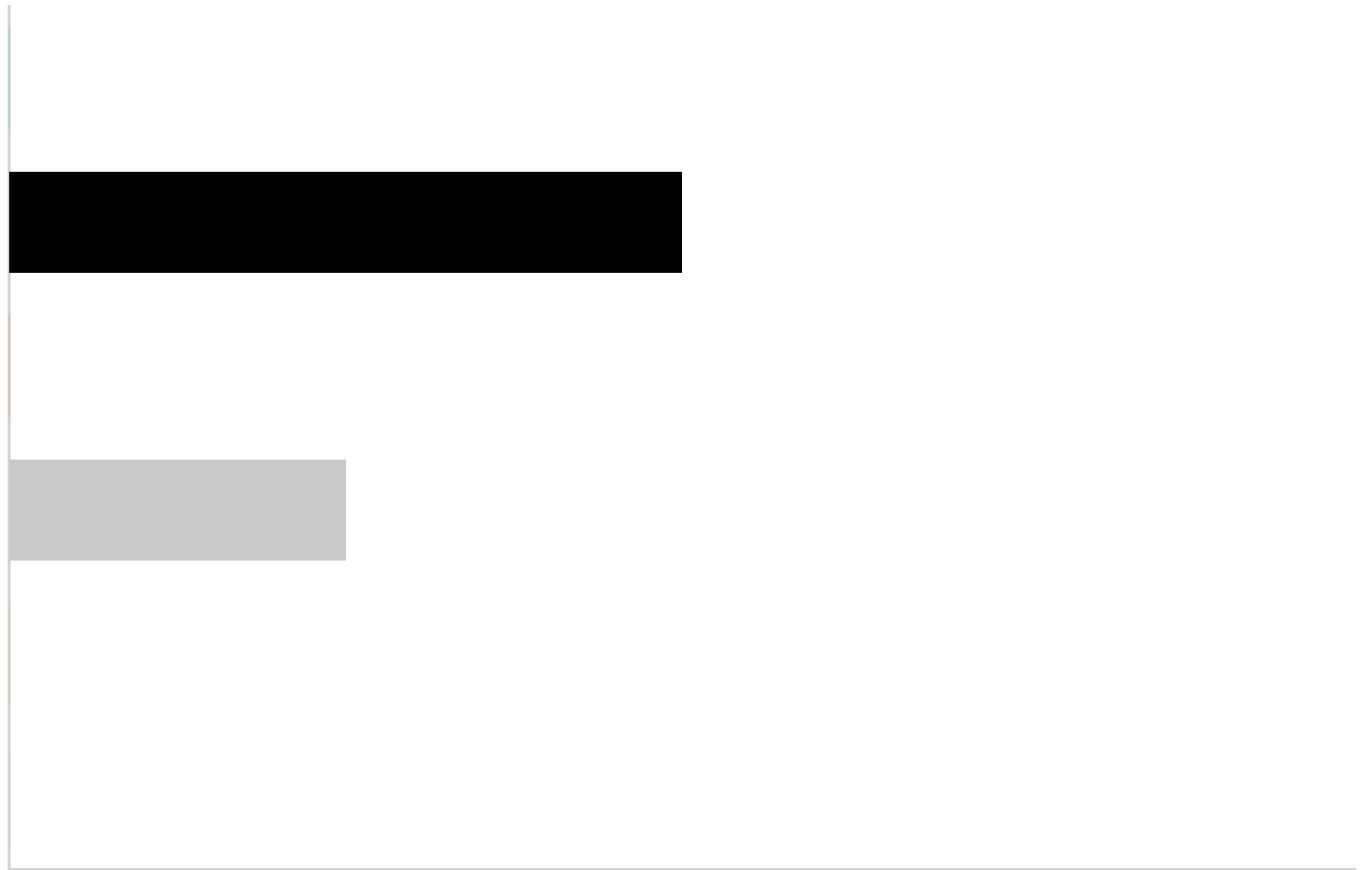
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2

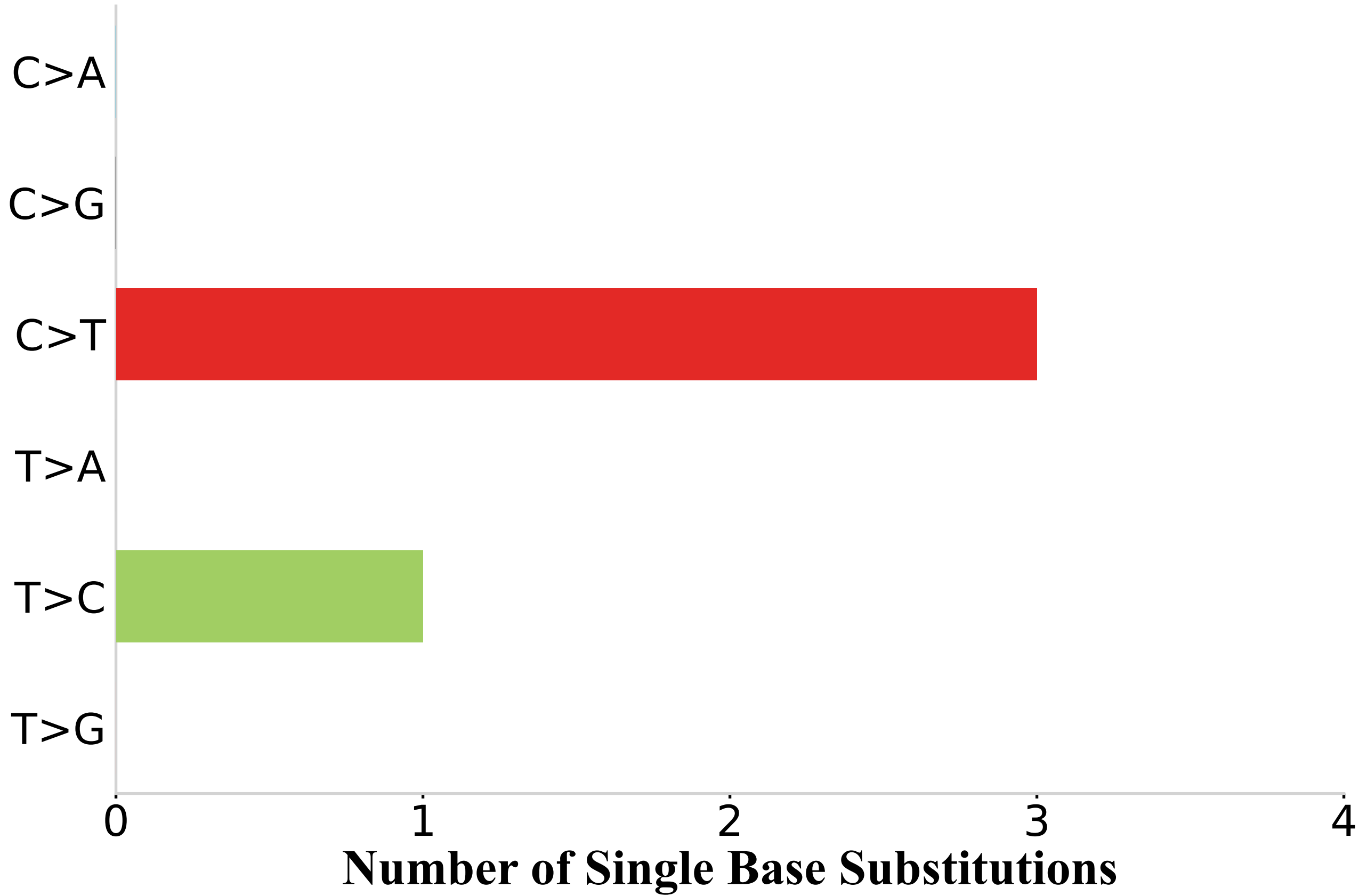
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4

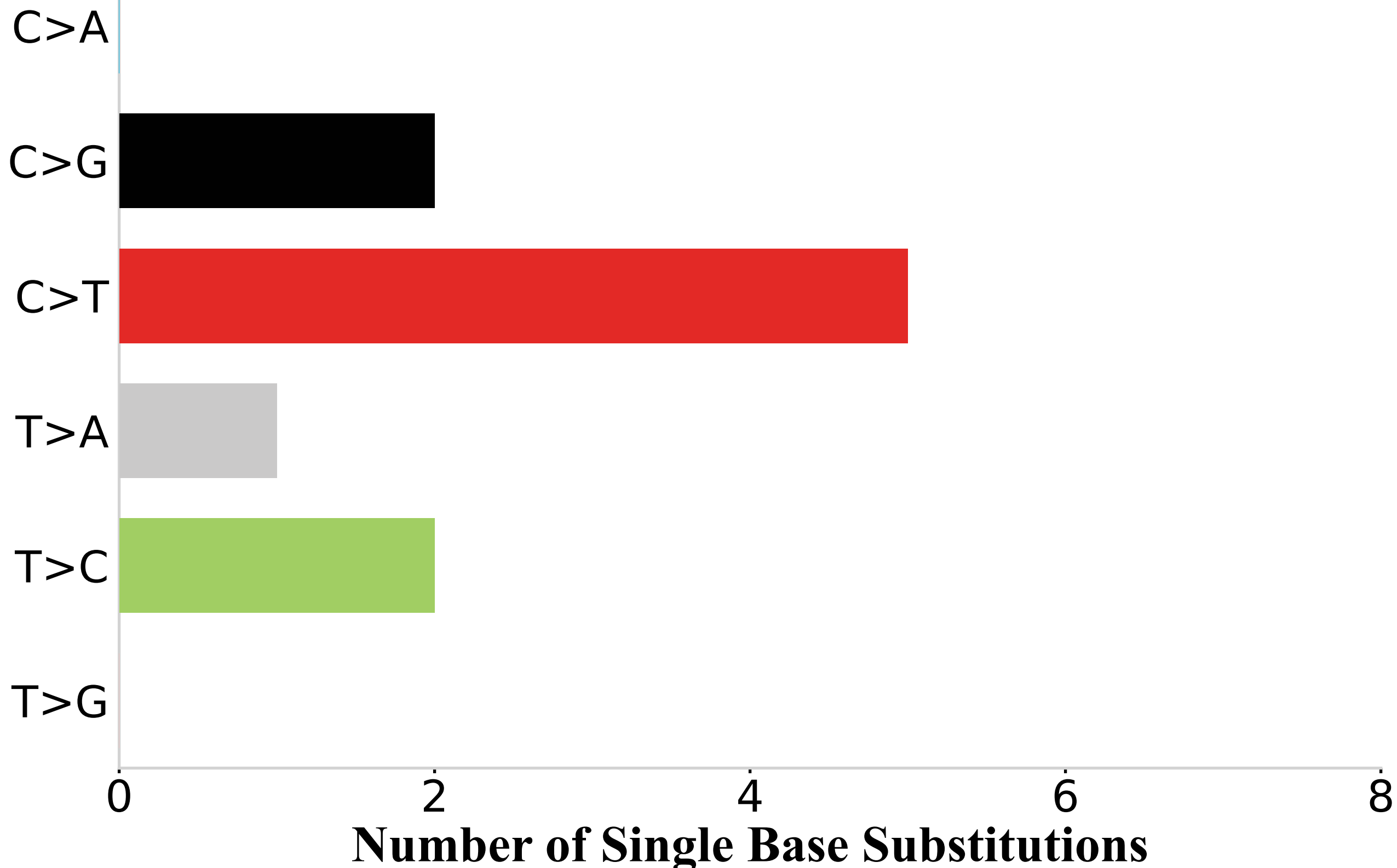
Number of Single Base Substitutions



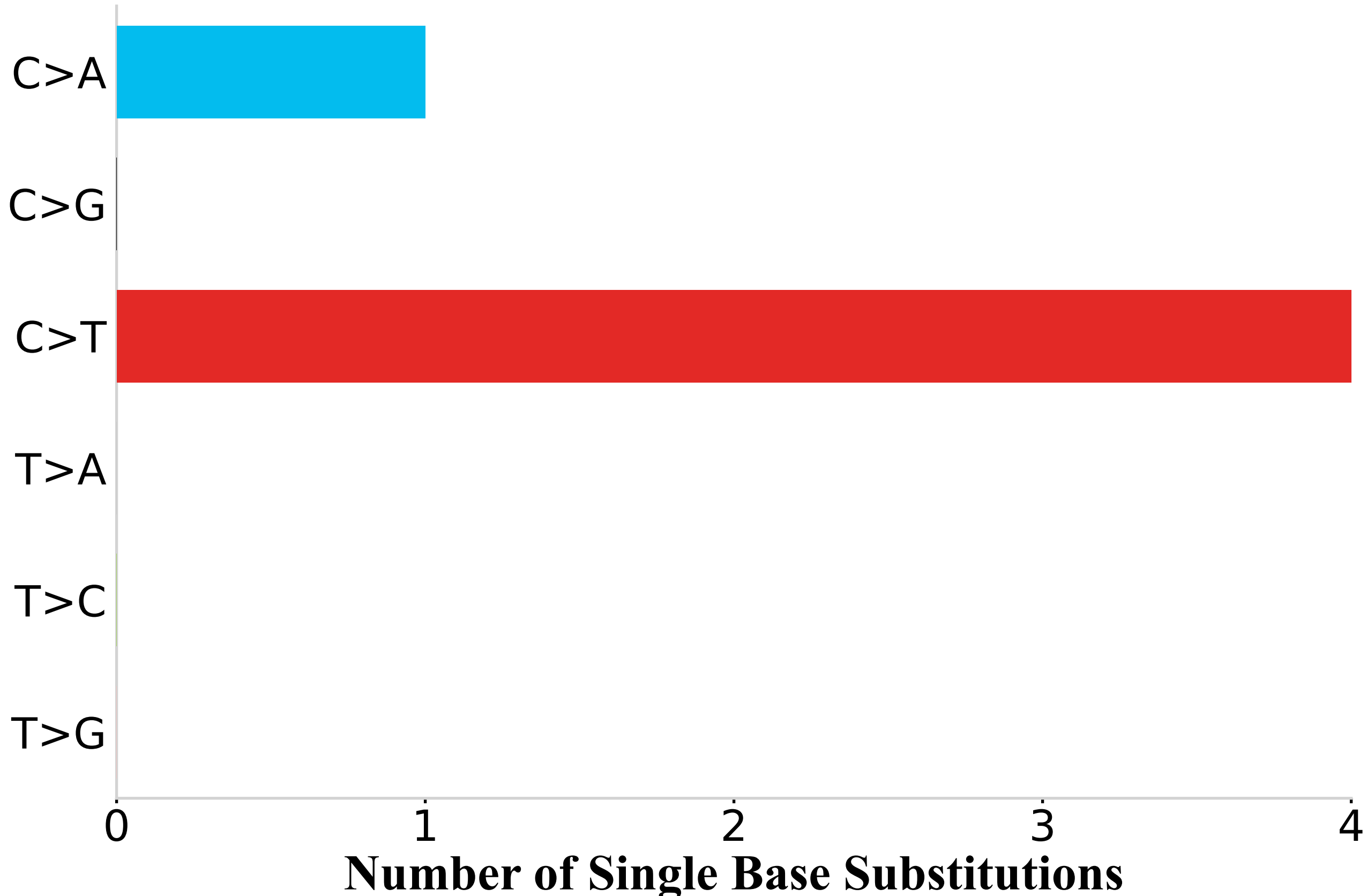
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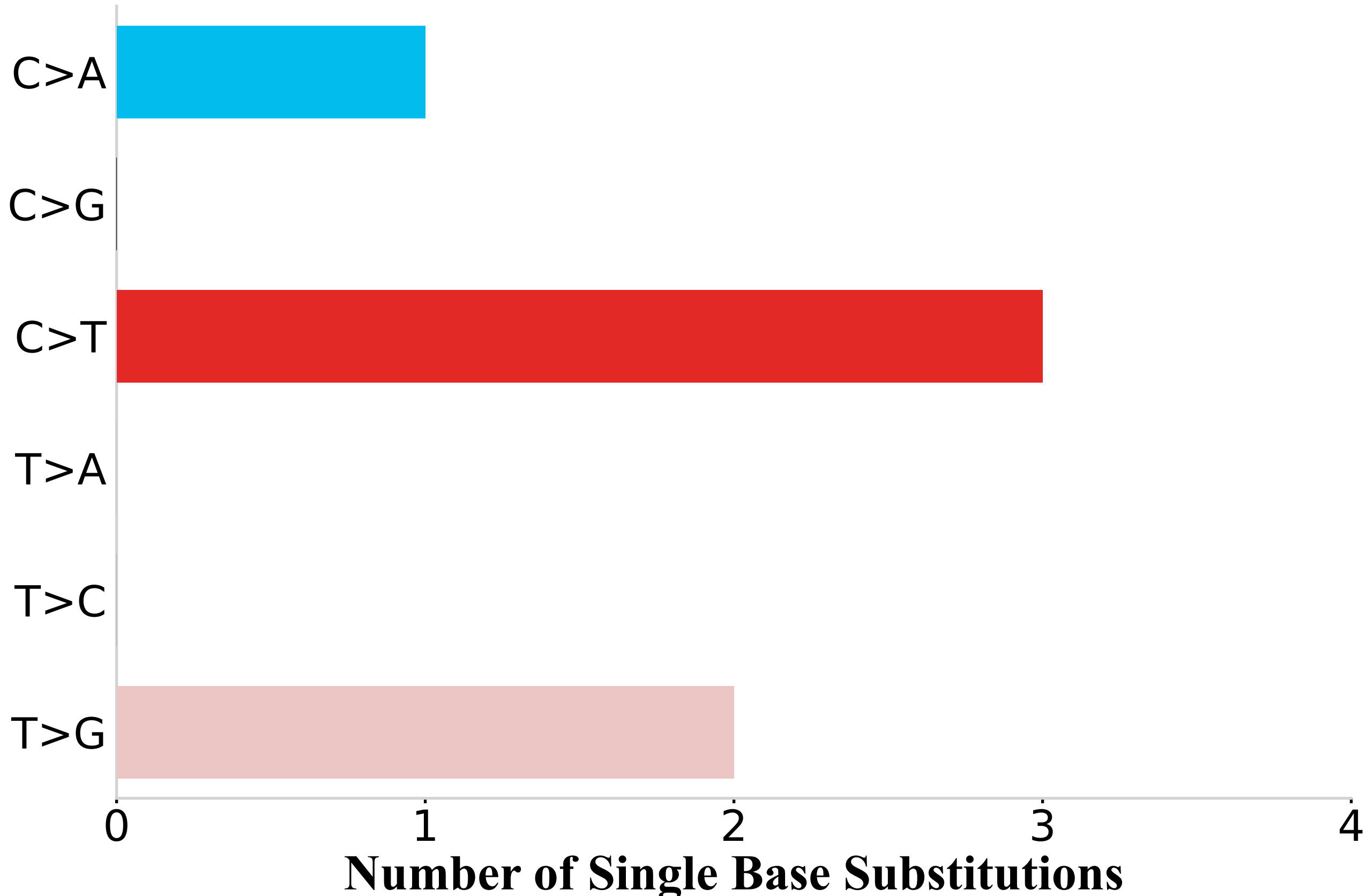
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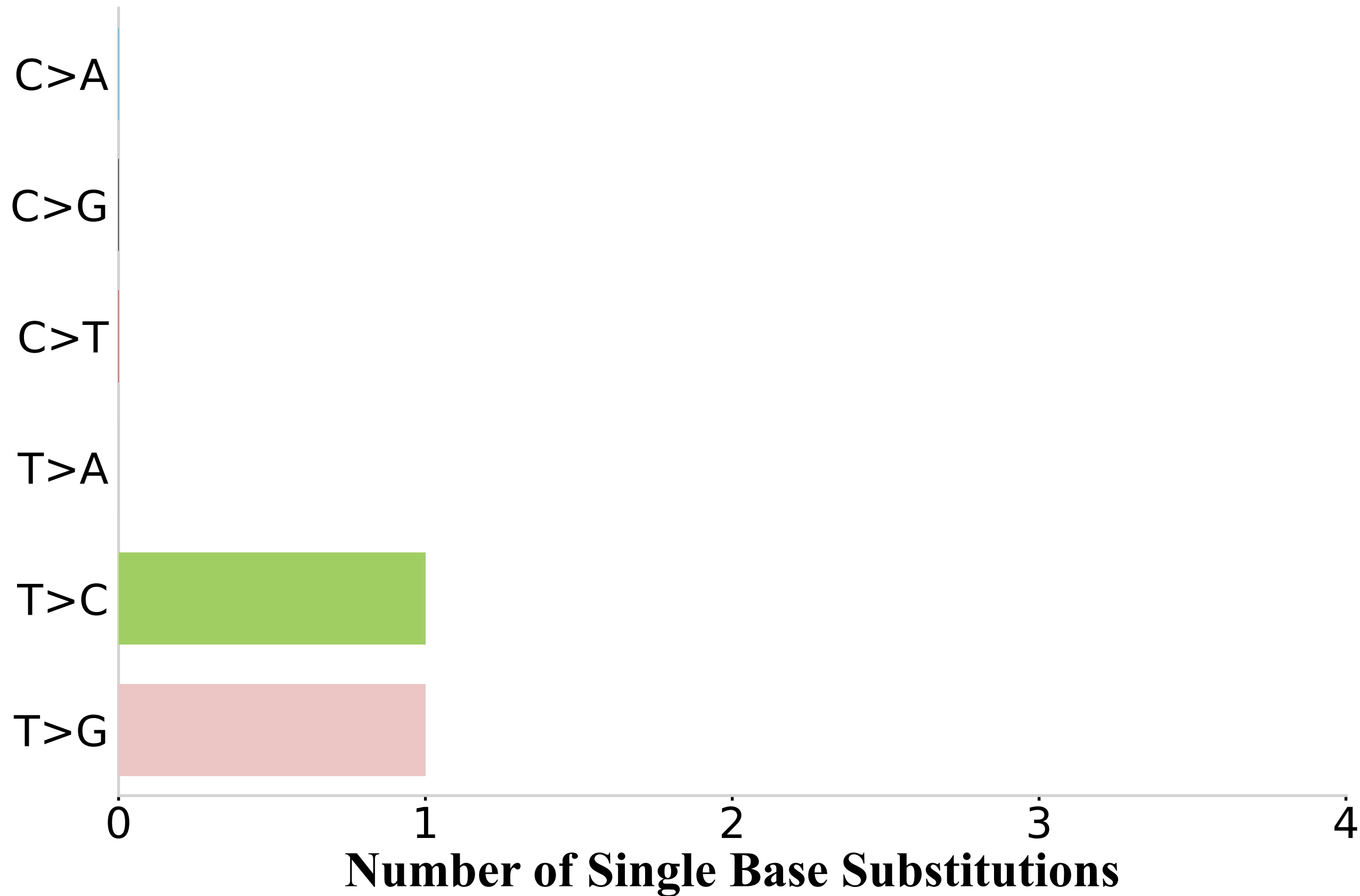
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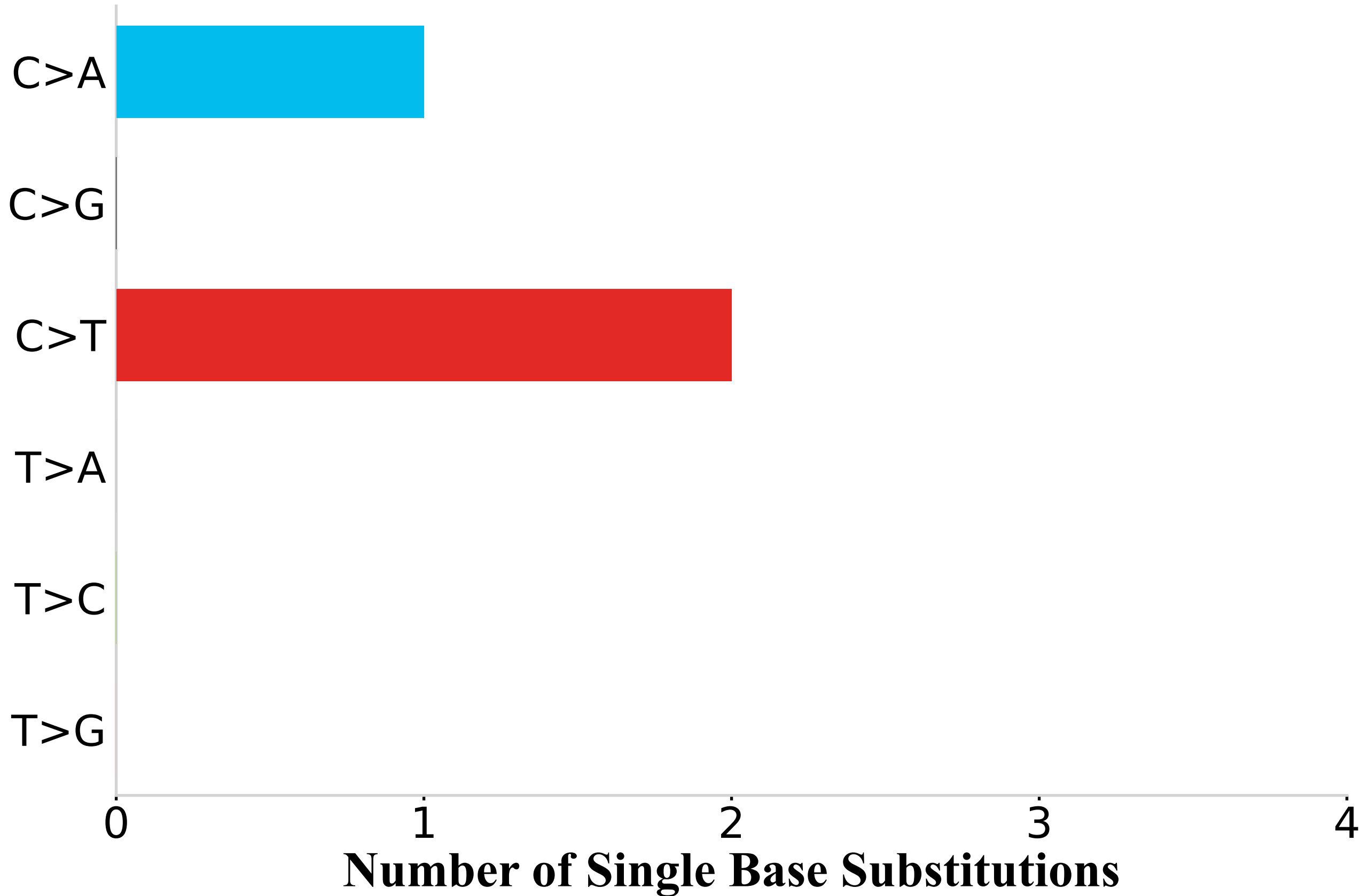
P-0050247-T01-IM6: 6 subs



P-0050433-T01-IM6: 2 subs



P-0050489-T01-IM6: 3 subs



P-0050544-T01-IM6: 2 subs

